

LOCATION MAP

SCALE: not to scale




LANDSCAPE ARCHITECT:



uplandDesign Ltd
Landscape Architecture & Park Planning
1229 N. North Branch St, #220A, Chicago, IL 60642
24042 Lockport St, Plainfield, IL 60544
312-350-4088 | 815-254-0091 uplandDesign.com
IL License 060-007797

CIVIL ENGINEERING:



Engineering Resource Associates
3s701 West Avenue, Suite 150
Warrenville, IL 60555
IL License # 184-001186

SURVEYOR
JLH Land Surveying inc.
910 Geneva St.
Shorewood, Illinois 60404
Phone: 815-729-4000
ILicense: 184-007120

Glenbriar Park Phase III

21W730 Butterfield Rd, Lombard, Illinois 60148



Butterfield Park District
21W730 Butterfield Rd
Lombard, IL 60148

Partially Funded by Illinois Department of Natural Resources
OSLAD Grant No. OS 22-2167

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SEQUENCE

- 1. Southwest site landscape and irrigation work, restoration and any other tree planting as noted shall be completed by November 15, 2023.
- 2. Northwest development shall be substantially completed by June 1, 2024

This project has been prepared by and reviewed by Licensed Landscape Architects.
Michelle A. Kelly # 157.001002
Heath A. Wright # 157.000994
Elizabeth A. Dafee # 157.001572

REVISIONS		
ORIGINAL ISSUE DATE		
Issue for Permit 17JUL2023		
PROJECT NUMBER		
999-1117		

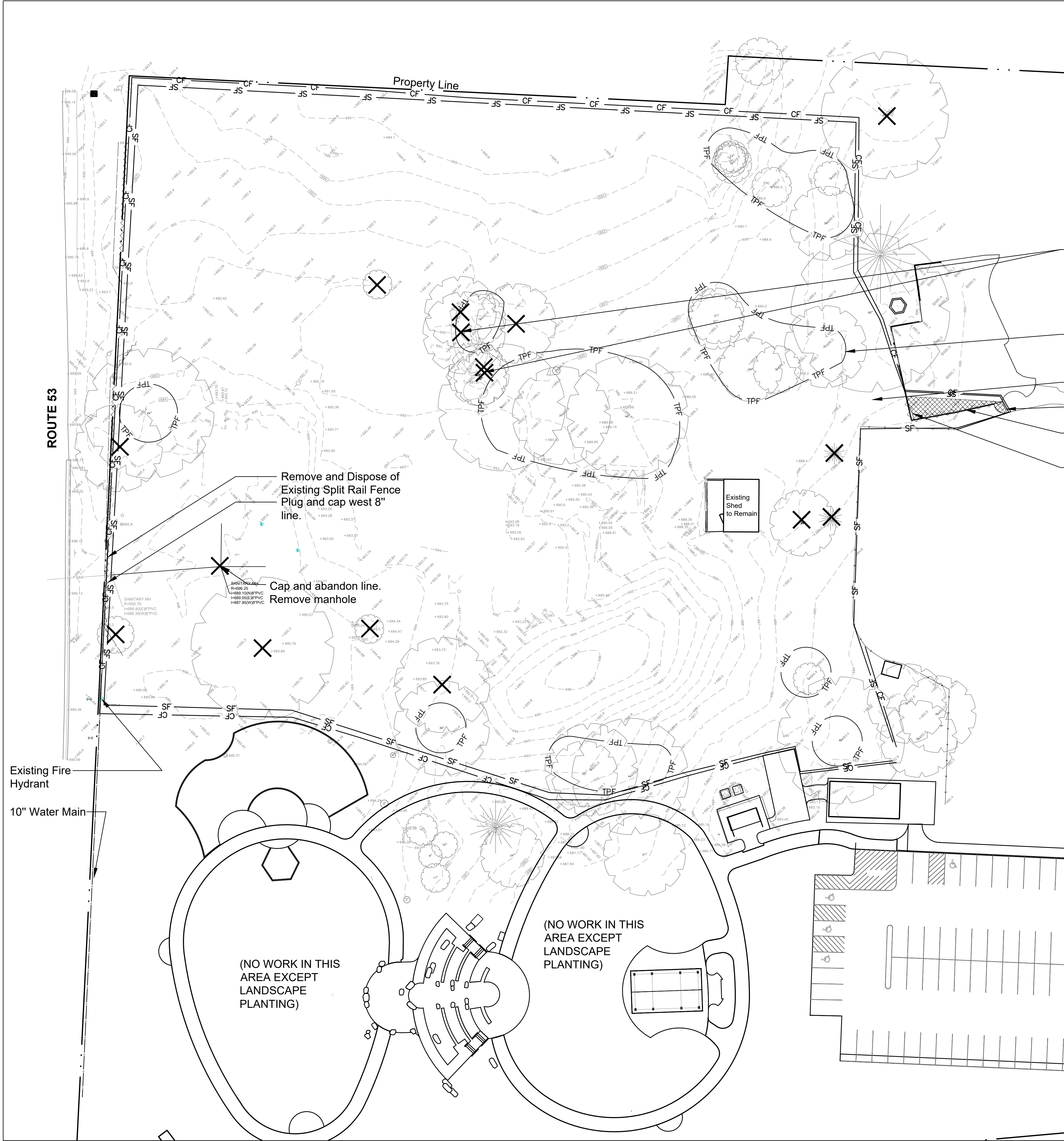
PROJECT NAME
Glenbriar Park Phase III

SHEET TITLE
Title Sheet

SHEET NUMBER



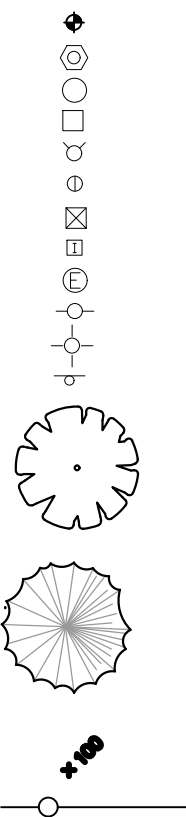
800.892.0123



- Remove and Dispose of Existing Tree and Grind Stump a Minimum of 18" Below Proposed Finished Grade
- 1 Tree Protection Fence
7.0
- 2 Silt Fence
7.0
- Sawcut and remove existing concrete
- Remove existing edge of playground surfacing
- Remove, salvage and relocate existing bench.

LEGEND

EXISTING



FEATURE

- BENCHMARK
STORM SEWER MANHOLE
CATCH BASIN
INLET
FIRE HYDRANT
B BOX
VALVE VAULT
IBT BOX
IBT MANHOLE
UTILITY POLE
LIGHT STANDARD
SIGN
- TREE
- PINE TREE
- SPOT GRADE
FENCE

GENERAL NOTES: EXISTING CONDITIONS & REMOVALS

- The Contractor is to locate all utilities, public and private, prior to beginning construction. Contractor will be responsible for any damages to utilities caused by their work. Contact J.U.L.I.E. 72 hours prior to construction at 1-800-982-0123 or (811) for location of utilities and contractor shall be responsible for protection of the same.
- Site conditions are shown based upon available information, contractor to verify all existing conditions prior to bidding.
- The contractor shall be responsible for the protection of all private utilities even though they may not be shown on the plans. Any utility damaged during the construction shall be repaired or replaced to the satisfaction of the Owner at the contractor's expense. No tree shall be planted within 10 lateral feet of any underground waterline, sewer line, transmission line or other utility.
- Contours and elevations shown hereon are referenced to the North American vertical datum of 1988 (navd88)
- A Topographic Survey was completed for the Owner by:
Zeitler Consulting, Inc.
1130 Randville, Unit 2B
Palatine, Illinois 60074 Phone: 224-220-6030
- The Contractor shall walk the site prior to submitting a bid to be fully familiar with site conditions.
- The Contractor shall protect and preserve all section, property or survey reference markers.
- Tree Protection Fence to be installed as shown on plans and details prior to beginning construction. (incidental to cost). Do not drive, store equipment or materials within dripline of existing trees that are to be saved. Hold necessary disturbance to a minimum.
- Contractor will be held responsible for damage to items not scheduled for removal.
- Contractor shall repair or replace all damaged sidewalks, curbs or paving to remain in place that were damaged as a result of work stated in contract documents.
- No excavations are to be left open to foul weather, rain, snow, etc. which would necessitate further excavation and additional sub grade materials.
- Work site safety is the responsibility of the Contractor.
- Vehicular Construction access shall be at one location to minimize damage. Construction access shall be approved by the Owner's representative.
- Construction Limits: Construction Limits are as noted on plans. Do not store equipment or stockpile materials outside of construction limits. Any areas disturbed as a result of construction shall be restored to lawn or other surface by contractor to match pre-construction condition.
- Topsail may be stockpiled for redistribution as needed. Excess topsail, debris and plant material to be removed off site and disposed of legally.
- Construction fence shall be installed prior to beginning construction. Construction fence to be free standing chainlink. (incidental to contract).
- Place erosion control measures as required to eliminate sedimentation into non-construction areas and as shown on plans and details prior to beginning construction.
- Before beginning work at the site and throughout the course of the work contractor to inspect and verify the location and condition of every item affected by the work under this contract and report discrepancies to the Owner's Representative before beginning work.
- Should discrepancies appear among the contract documents or between the contract documents and existing conditions, the contractor shall request an interpretation from the Owner's Representative before bidding. If the contractor fails to make such requests, it is presumed that both provisions were included in the bid, and the Owner's Representative shall determine which of the conflicting requirements shall govern. The contractor shall perform the work at no additional cost to the Owner in accordance with the Owner's Representative determination. Where conflicts exists between or within the contract documents between and applicable standards, codes, ordinances or manufacturers recommendations, and clarification has not been requested from the Owner's Representative prior to bidding as provided for above, the more stringent or higher quality standard shall prevail. Large scale drawings shall take precedence over small scale drawings, figured dimensions on the drawings over scaled dimensions and noted material over graphic representations.
- The contractor shall provide all work and materials which any section or part of the drawings, specifications or conditions require them to provide, regardless of whether such requirement is or is not faithfully repeated in other parts of the documents thereof to which the provisions might be appropriate.
- All necessary site work permits will be obtained by Owner. Contractor and all subcontractors shall register and pay associated fees to the Building Department. Contractor is responsible for following permit requirements including coordination of inspections and/or reinspections and associated fees.
- Contractor shall follow all permit requirements as part of the project.

PROJECT BENCHMARK

DUPAGE COUNTY AREA BENCHMARK:	SITE BENCHMARK:
IDOT BENCHMARK M125001 BRONZE DISK MONUMENT ON TOP OF CONCRETE HEADWALL AT THE SOUTHWEST CORNER OF THE ROADWAY BRIDGE OF IL-56 (BUTTERFIELD RD OVER THE EAST BRANCH OF THE DUPAGE RIVER	CP-102 MMAG NAIL IN ASPHALT AT NORTHWEST CORNER OF PARKING LOT

ELEVATION = 683.44	ELEVATION = 681.14
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REMOVALS LEGEND

- ~~~~~ Remove and Dispose of Existing Fence
- ✕ Remove and properly dispose of trees, stump, and grind root mass to a depth of 18" below existing grade or proposed grade which ever is lowest unless otherwise noted on plan.
- ✕ Remove and Dispose of Item as Marked
- △ Salvage and Relocate Item as Marked



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Phone: 630-858-2229

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Plainfield, Illinois 815-254-0091
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3S701 West Avenue Suite 150
Warrenville, IL 60555
Phone: 630-393-3060

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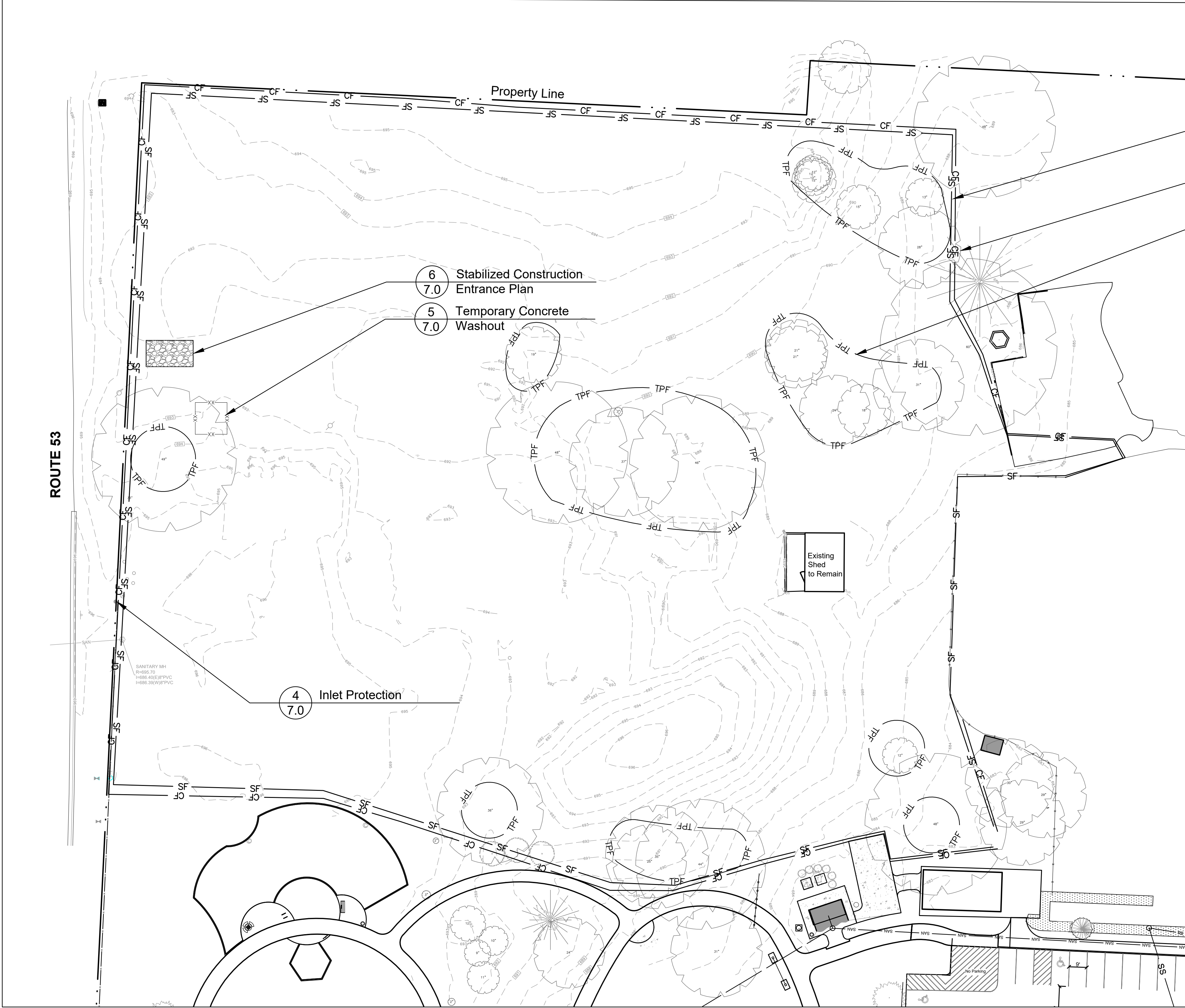
SHEET TITLE

Existing Conditions & Removals Plan

SHEET NUMBER **2.0**

DRAW / REVISION

LD/JF	Issue for Permit	17JUL2023



SEDIMENT EROSION CONTROL AND POLLUTION PREVENTION NOTES:

1. DURING CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION LIMITS SHALL BE PROTECTED. THE CONTRACTOR SHALL NOT USE THIS AREA FOR STAGING, PARKING OF VEHICLES OF CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS OR OTHER CONSTRUCTION RELATED ACTIVITIES.
2. CONSTRUCTION EQUIPMENT SHALL BE STORED AND FUELED ONLY AT DESIGNATED LOCATIONS. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR OTHER POLLUTANT IN ACCORDANCE WITH EPA WATER QUALITY REGULATIONS. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
3. TEMPORARY SEDIMENT CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PERMANENT VEGETATION IS GROWING AND THRIVING.
4. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO START OF CONSTRUCTION.
5. ALL EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND AFTER EACH 1/2" RAIN EVENT.
6. THE EROSION CONTROL BLANKET AND/OR STRAW MULCH WITH NETTING (DEPENDENT ON SLOPE, SLOPE LENGTH AND FLOW RATES) SHALL BE INSTALLED ON ALL SLOPES STEEPER THAN 5H:1V AND IN CRITICAL AREAS IMMEDIATELY UPON FINAL GRADING.
7. IN AREAS WHERE WORK IS COMPLETE, PERMANENT STABILIZATION SHALL OCCUR WITHIN 7 DAYS OF COMPLETION, AND IN AREAS WHERE WORK HAS TEMPORARILY CEASED FOR 14 DAYS OR MORE, TEMPORARY STABILIZATION SHALL OCCUR BY THE 7TH DAY AFTER WORK HAS CEASED.
8. WINTER SHUTDOWNS SHALL BE ADDRESSED EARLY IN THE FALL, GROWING SEASON SO THAT SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL.
9. ALL ADJACENT STREETS MUST BE KEPT CLEAR OF DEBRIS. STREETS SHALL BE INSPECTED DAILY AND CLEANED WHEN NECESSARY AND AS DIRECTED BY ENGINEER.
10. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE MOST RECENT EDITION OF THE ILLINOIS URBAN MANUAL AND IN THE DUPAGE COUNTY CODE OF ORDINANCES.
11. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
12. PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE OWNER FOR REVIEW BY THE ENGINEER.
13. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE ENGINEER.
14. DURING DEWATERING OPERATIONS (IF NECESSARY), SEDIMENT-LOADED WATER SHALL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. DEWATERING SEDIMENT-LOADED WATER DIRECTLY INTO STREAMS, WETLANDS, FIELD TILES, OR STORMWATER STRUCTURES IS PROHIBITED.
15. WHERE THERE IS LOW, INTERMITTENT AMOUNTS OF DEWATERING, PUMPS WITH FILTRATION BAGS SHALL BE USED. FILTRATION BAGS SHALL BE ATTACHED TO PUMP DISCHARGES AND SURROUNDED WITH A SECONDARY CONTAINMENT OR ON A STABILIZED AREA. FILTER BAGS SHALL NOT BE PLACED WHOLE OR PARTIALLY WITHIN AQUATIC AREAS (WETLANDS, PONDS, ETC.). THE MATERIAL FOR THE FILTRATION BAGS SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION 592 GEOTEXTILE OF THE ILLINOIS URBAN MANUAL, TABLE 2, CLASS 1 WITH A MINIMUM TENSILE STRENGTH OF 200 LBS. THE FILTRATION BAG SHALL BE SIZED PER MANUFACTURER RECOMMENDATIONS AND BASED ON THE SIZE OF THE PUMP.
16. EXCAVATED AREAS SHALL BE PERMANENTLY SEEDED IMMEDIATELY AFTER FINAL GRADING. IF NOT, THEY SHALL BE TEMPORARILY SEEDED IF NO CONSTRUCTION ACTIVITY IN THE AREA IS PLANNED FOR SEVEN (7) DAYS.
17. TEMPORARY EROSION CONTROL SEEDING SHALL BE APPLIED AT A RATE OF 100 LBS/ACRES.
18. STOCKPILES THAT ARE TO REMAIN IN PLACE MORE THAN THREE DAYS SHALL BE PROVIDED WITH SOIL EROSION AND SEDIMENT CONTROL MEASURES.

19. SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS TEMPORARY SEDIMENT CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS, AS DIRECTED BY THE ENGINEER.
20. ALL DROP INLETS ON AND ADJACENT TO THE SITE MUST HAVE A SEDIMENT TRAPPING OR CONTAINMENT DEVICE INSTALLED DURING CONSTRUCTION ACTIVITIES. FILTER FABRIC ON ITS OWN IS NOT AN APPROVED METHOD. A MANUFACTURE'S SPEC SHOULD BE USED FOR PREFABRICATED DROP INLET PROTECTION AND SHOULD BE AS THE ILLINOIS URBAN MANUAL STANDARD 5010 FOR INLET PROTECTION.
21. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED. TRAPPED SEDIMENT AND OTHER DISTURBED SOILS RESULTING FROM TEMPORARY MEASURES SHALL BE PROPERLY DISPOSED OF PRIOR TO PERMANENT STABILIZATION.
22. ALL EROSION AND SEDIMENT CONTROL PRODUCTS FURNISHED SHALL BE SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THE USE SPECIFIED IN THE EROSION AND SEDIMENT CONTROL PLAN. PRIOR TO THE APPROVAL AND USE OF THE PROJECT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A NOTARIZED CERTIFICATION BY THE PRODUCER STATING THE INTENDED USE OF THE PRODUCT AND THAT THE PHYSICAL PROPERTIES REQUIRED FOR THIS APPLICATION ARE MET OR EXCEEDED. THE CONTRACTOR SHALL PROVIDE MANUFACTURER INSTALLATION PROCEDURES TO FACILITATE THE ENGINEER IN CONSTRUCTION INSPECTION.
23. THE DRAWINGS, SPECIFICATIONS AND SPECIAL PROVISIONS WILL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED. STABILIZATION PRACTICES INCLUDE TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, PROTECTION OF TREES, PRESERVATION OF NATURAL VEGETATION, AND OTHER APPROPRIATE MEASURES AS DIRECTED BY THE ENGINEER. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
- a. AREAS OF EXISTING VEGETATION, WOOD AND GRASSLANDS, OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES.
- b. BARE AND SPARSELY VEGETATED GROUND IN HIGH ERODIBLE AREAS AS DETERMINED BY THE ENGINEER SHALL BE TEMPORARILY SEEDED AT THE BEGINNING OF CONSTRUCTION WHERE NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN SEVEN (7) DAYS.
24. THE SITE SHOULD BE PHASED IN A WAY THAT REDUCES THE AMOUNT OF STRIPPED, UNSTABILIZED AREAS WITHIN THE SITE AT ANY ONE TIME. MASS GRADING THE ENTIRE SITE SHOULD BE AVOIDED AS TO PREVENT EROSION ON SITE AND SEDIMENTATION ISSUES DOWNSTREAM.
25. CONSTRUCTION IS COMPLETE AFTER ACCEPTANCE BY THE OWNER. MAINTENANCE UP TO THIS DATE WILL BE BY THE CONTRACTOR.
26. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND ASSURE COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

"I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT (ILR10) THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION."

CONTRACTOR SIGNATURE



SCALE: 1" = 30'-0"



ENGINEER: ANDREW R. KUSTUSCH, P.E.

DATE

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- SINGLE ROW SILT FENCE
- ROLLED EROSION CONTROL DITCH CHECK
- INLET AND PIPE PROTECTION
- TEMPORARY CONSTRUCTION ENTRANCE
- CONCRETE WASHOUT

STORM WATER POLLUTION PREVENTION PLAN

THE FOLLOWING PLAN IS ESTABLISHED AND INCORPORATED IN THE PROJECT TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION AND SEDIMENT CONTROL SYSTEMS AND TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE EROSION WITHIN THE CONSTRUCTION SITE AND TO LIMIT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE BY UTILIZING PROPER TEMPORARY EROSION AND SEDIMENT CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

CERTAIN SEDIMENT CONTROL FACILITIES SHALL BE INSTALLED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION DEPENDING ON THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL INSTALL PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A TIME FRAME SPECIFIED HEREIN AND AS DIRECTED BY THE ENGINEER, THEREFORE MINIMIZING THE AMOUNT OF AREA SUSCEPTIBLE TO EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING. THE ENGINEER WILL DETERMINE IF ANY TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS, WHICH ARE NOT INCLUDED IN THIS PLAN, SHALL BE ADDED. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN IDOT STANDARD 280001.

SECTION 280. TEMPORARY EROSION CONTROL, OF THE STANDARD SPECIFICATIONS ADDITIONALLY SUPPLEMENTS THIS PLAN.

SITE DESCRIPTION, DESCRIPTION OF CONSTRUCTION ACTIVITY:

1. THE PROJECT IS LOCATED NORTHEAST OF THE INTERSECTION OF BUTTERFIELD ROAD (ROUTE 56) AND ROUTE 53 IN DUPAGE COUNTY, IL.
2. THE GLEN BRIAR PARK PROJECT SHALL GENERALLY CONSIST OF THE FOLLOWING:
 - 1.) TOPSOIL STRIPPING, EARTH EXCAVATION, AND STRUCTURAL FILL PLACEMENT;
 - 2.) INSTALLATION OF UNDERDRAIN AND STORM SEWER;
 - 3.) INSTALLATION OF SIDEWALK, WALKING PATHS, PARKING AREA, AND CONCRETE PADS.
 - 4.) INSTALLATION OF SPORT COURTS, GAME AREAS, SLED HILL, AND NATURAL AREAS.
 - 5.) ALL OTHER COLLATERAL WORK SUCH AS RESTORATION.

DESCRIPTION OF INTENDED SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES WHICH WILL DISTURB SOILS FOR MAJOR PORTION OF THE CONSTRUCTION SITE:

1. SEDIMENT CONTROL SILT FENCING SHALL BE IN PLACE PRIOR TO EARTHWORK ACTIVITIES.
2. SITE SHALL BE MASS-GRADED, WITH ALL PROPOSED PAVEMENTS GRADED TO ROUGHLY 1-FOOT (VARIES) BELOW FINAL ELEVATION ON PLANS.
3. UTILITIES SHALL BE CONSTRUCTED AFTER COMPLETION OF STORM SEWER CONSTRUCTION, SEDIMENT CONTROL FILTER BARRIER AND SEDIMENT CONTROL FLOW-THROUGH (DROP-IN) FILTERS SHALL BE PLACED AT EACH OPEN-GRATE STRUCTURE.
4. CONCRETE CURB & GUTTER, BITUMINOUS AND CONCRETE PAVEMENT, AND BITUMINOUS TRAILS SHALL BE CONSTRUCTED.
5. SITE SHALL BE TEMPORARILY STABILIZED IMMEDIATELY FOLLOWING MASS GRADING COMPLETION.
6. FINE GRADING SHALL BE PERFORMED.
7. THE SITE SHALL BE SEEDED AND STABILIZED WITH BIODEGRADABLE EROSION CONTROL MAT (WHERE NOTED) UPON COMPLETION OF THE PROJECT.
8. TEMPORARY EROSION CONTROL MEASURES WILL BE REMOVED FOLLOWING FINAL STABILIZATION.

AREA OF CONSTRUCTION SITE:

THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE 2.97 ACRES BY WHICH 2.14 ACRES WILL BE DISTURBED BY EXCAVATION, GRADING, AND OTHER ACTIVITIES.

OTHER REPORTS, STUDIES AND PLANS, WHICH AID IN THE DEVELOPMENT OF THE STORM WATER POLLUTION PREVENTION PLAN AS REFERENCED DOCUMENTS:

1. INFORMATION OF THE SOILS AND TERRAIN WITHIN THE SITE WAS OBTAINED FROM TOPOGRAPHIC SURVEYS AND WERE USED FOR THE DEVELOPMENT OF THE PROPOSED TEMPORARY EROSION AND SEDIMENT CONTROL SYSTEMS.
2. PROJECT PLAN DOCUMENTS, SPECIFICATIONS AND SPECIAL PROVISIONS, AND PLAN DRAWINGS INDICATING DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED AFTER GRADING ACTIVITIES WERE UTILIZED FOR THE PROPOSED PLACEMENT OF THE TEMPORARY EROSION CONTROL SYSTEMS.

DRAINAGE TRIBUTARIES AND SENSITIVE AREAS RECEIVING RUNOFF FROM THIS CONSTRUCTION SITE:

1. THE EXISTING SITE DRAINS GENERALLY FROM NORTHWEST TO SOUTHEAST TO THE EXISTING SWALE ALONG BUTTERFIELD ROAD (ROUTE 56). THERE ARE NO KNOWN SENSITIVE AREAS IMMEDIATELY DOWNSTREAM OF THE PROJECT AREA AND NO KNOWN OFFSITE AREAS TRIBUTARY TO THIS SITE.

THIS PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF THE NPDES PERMIT NUMBER ILR10 ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES.

"I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

CONTRACTOR'S CERTIFICATION

"I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT (ILR 10) THAT AUTHORIZES THE STORMWATER DISCHARGES ASSOCIATED WITH ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION."

GENERAL CONTRACTOR

SIGNATURE TITLE DATE
COMPANY

OWNER'S CERTIFICATION

"I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

OWNER
SIGNATURE TITLE DATE
COMPANY



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SHEET TITLE

Stormwater Pollution Prevention Plan

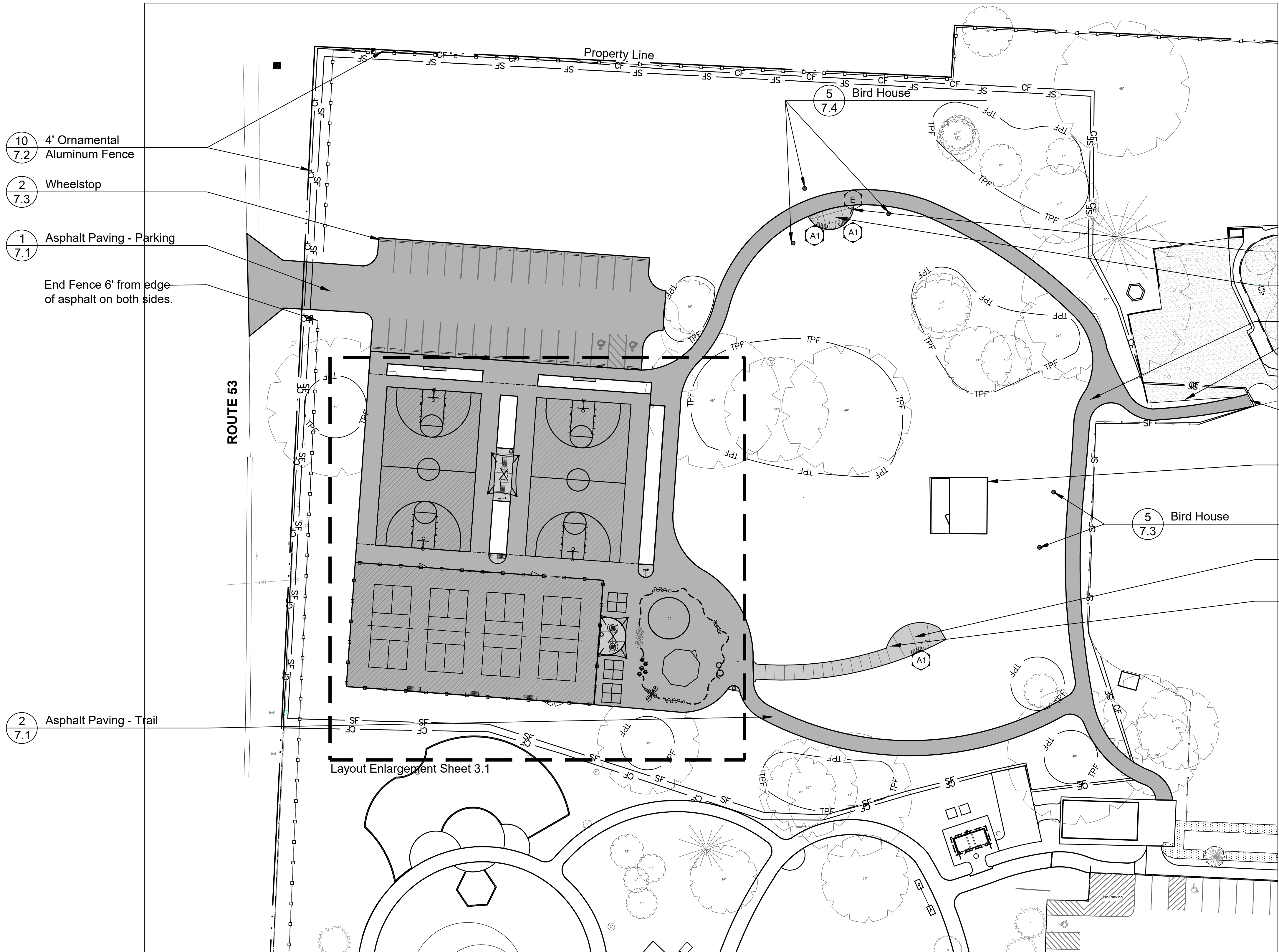
SHEET NUMBER

2.1

DRAW / REVISION

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Project Number 999-1117
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Layout Enlargement Sheet 3.1

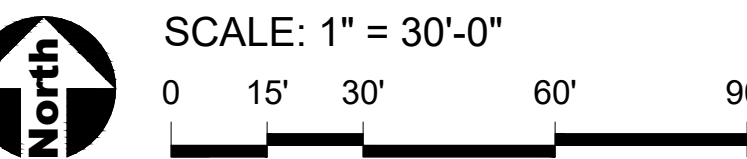
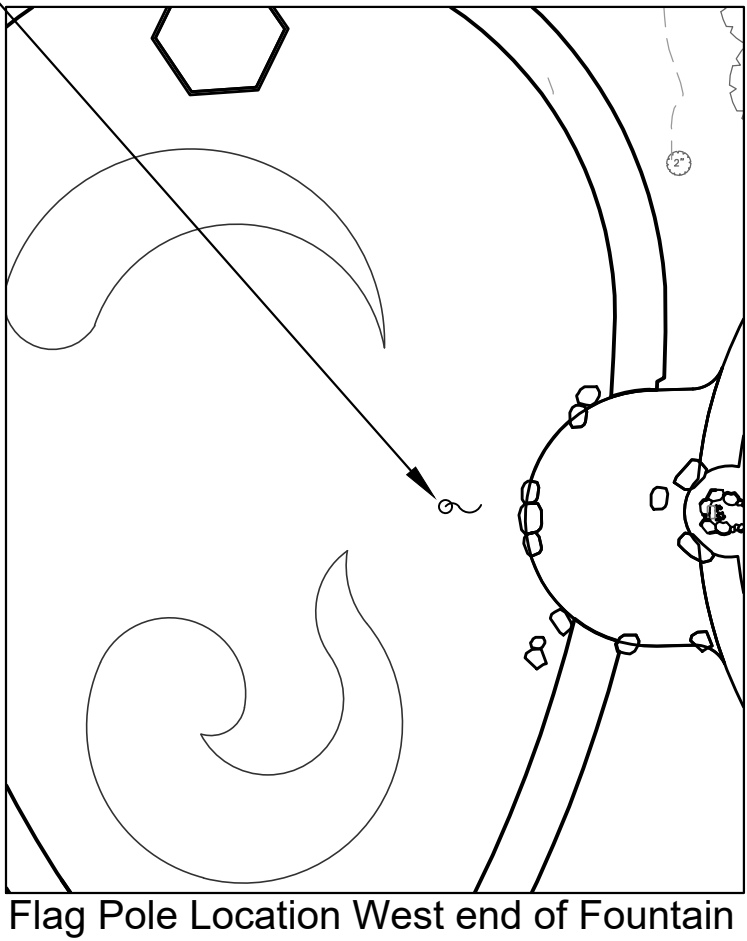
SITE AMENITIES SCHEDULE

Key	Item	Color	Quantity	Model	Manufacturer	Supplier
A1	Bench with Memorial Plaque	Black Powdercoat	6	#117, 6' Metal Bench Surface Mount with Memorial Plaque	DuMor	NuToys 708-579-9055
A2	Bench with Memorial Plaque	Black Powdercoat	3	#117, 6' Metal Bench inground direct bury with Memorial Plaque	DuMor	NuToys 708-579-9055
B	Concrete ADA Table with Checkerboard	Concrete, Standard Sand Blast SB6, Graffiti Non-Gloss	2	T6000 48" Dia. Table with 3 Benches T6060 Checkerboard, Surface Mount	Doty & Sons	Doty & Sons 800-233-3907
C	Litter Receptacle	Black Powdercoat	4	T-45, Surface Mount with Rain Bonnet Lid	Victor Stanley	Victor Stanley 301-855-8300x341
D	Pickleball Ground Sleeve, Net, Ground Anchor, and Tie Down Strap	Steel Post: Black Powdercoat Net: N/A	4 SETS	#63070, 63071, Premier RD-36, 3" OD round #20045, TN-45, In Ground	Douglas Sports	NuToys Leisure Products (800) 526-6198
E	Interpretive Signage	Customized Sign Panels Black Powdercoat - posts	1	Custom, In Ground mount, 24 H X 24 W : 1/2" Exterior Panel Single Sided, single post pedestal, Graphics to come	iZone	iZone 888-464-9663
F	Gaga Ball	Composite Lumber: Brown Wall Top and Brackets: Red	1	Octagon 30H, 20' Diameter Wall-to-Wall, Surface Mount	Coach Cliff's GaGa Ball Pits	Coach Cliff's GaGa Ball Pits 877-266-8426

Key	Item	Color	Quantity	Model	Manufacturer	Supplier
G	Tetherball	Standard	1	TB100 Outdoor In Ground Tetherball Game Set. Two piece pole and includes tetherball.	Bison Inc.	Future Pro, Inc 800-328-4625
H	Basket Ball Hoop	Black	4	Heracles Diamond Post/Frame with Net, Steel Backboard, and Rust Armor Bolts	Pro Dunk Hoops	ProDunkHoops.com 800-600-8548
I	Shade Sail	Shade: Eggshell White Post: Black	2	Rectangle 4 Columns	Shade Systems Inc.	Parkreation, Inc. (815) 735-1497
J	Drinking Fountain with bottle filler and dog bowl	Black Powdercoat	1	10145SM with Surface Carrier and Hose Bibb and Lock Door and Pet Fountain	Most Dependable Fountain	Reese Recreation 847-404-6725
K	Next Up Spinner	Standard	1	Boomer "Next- Up" Tracker Fence Mounted	Boomer Pickleball	Boomer Pickleball 1800-970-0308
L	Pickleball Racket Holder	Standard	4	Boomer HD Paddle Rack Fence Mounted	Boomer Pickleball	Boomer Pickleball 1800-970-0308

GENERAL NOTES: LAYOUT

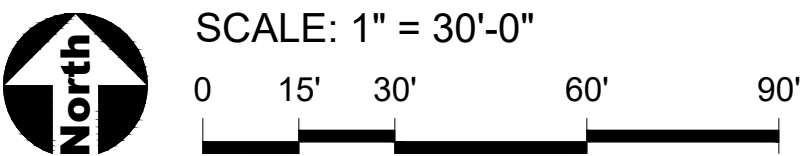
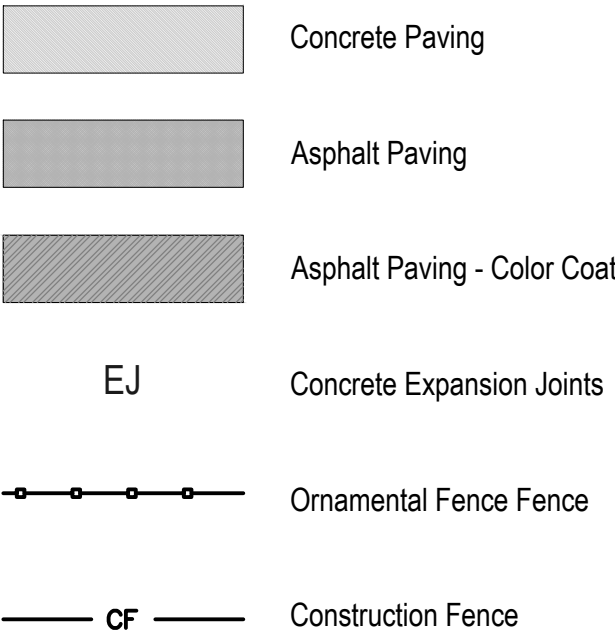
- It is the responsibility of the Contractor to perform layout of all project elements and points for review by Owner prior to construction. (This work is considered incidental to the project and not paid as a separate bid item).
- The contractor shall be responsible for all materials and quantities as required to complete the work in accordance with the plans and specifications. The contractor will notify the Owner's Representative in writing of any discrepancies or changes required to complete the work before any action may be taken. All changes or change orders must be approved by the Owner's Representative and Owner before any changes are executed.
- Contractor shall follow DuPage County permit requirements as part of the project.



REFERENCED SPECIFICATIONS AND CODES

- The Standard Specifications for Road and Bridge Construction (SSRBC), adopted April 1, 2016 adopted by the Illinois department of Transportation, and all amendments thereto the design manual, highway standards, and the culvert manual, also prepared by the Illinois Department of Transportation.
- The Americans with Disabilities Act and the Illinois Accessibility Code.
- The Illinois Procedures and Standards for Urban Soil Erosion and Sedimentation Control, and IEPA Standards and Specifications for Soil Erosion and Sedimentation Control.
- U.S. Soil Conservation Service Field Engineering Handbook
- All codes and ordinances of the Dupage County, and all agencies having jurisdiction.
- All requirements of the Occupational Safety and Health Administration.
- The cited standard specifications, codes and permits, with these construction plans and details, are all to be considered part of the work, incidental items or accessories necessary to complete this work may not be specifically noted but are considered a part of these improvements.
- In case of conflict, the more restrictive provision shall apply.

LEGEND



21W730 Butterfield Rd
Lombard, Illinois 60148
Phone: 630-858-2229

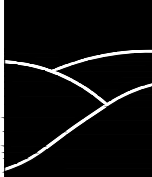
PROJECT

Glenbriar OSLAD Phase III Development

21W730 Butterfield Rd
Lombard, Illinois 60148

PROJECT TEAM

uplandDesign



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SURVEYOR

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SHEET TITLE

Layout Plan

SHEET NUMBER

3.0


DRAW / REVISION

LDJ/F	Issue for Permit	17JUL2023

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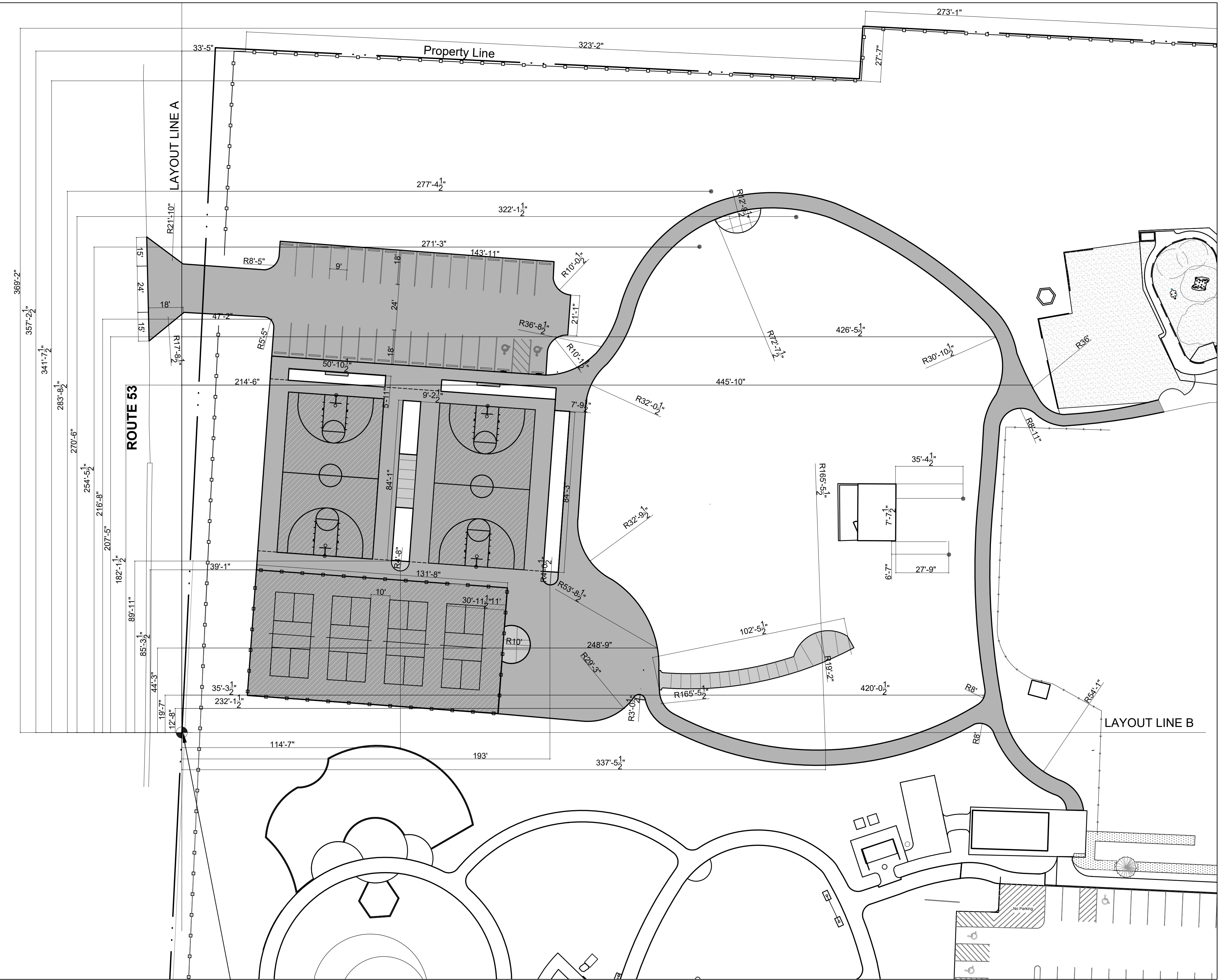
Layout Enlargement - West

3.1

LD/JF	Issue for Permit	17JUL2023

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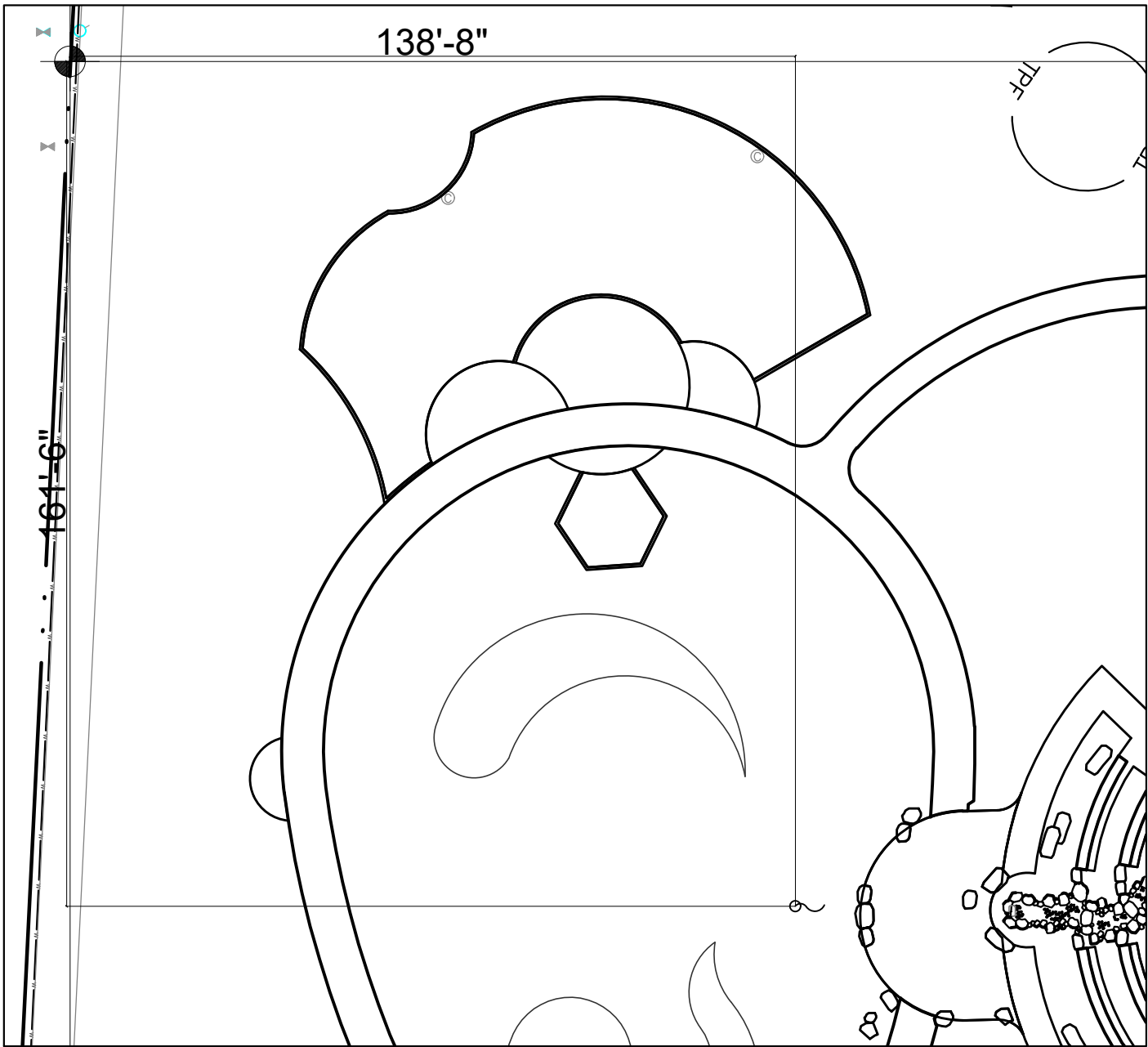


Pont of beginning is a found Iron Pipe. Layout Line A runs North along the centerline of the iron pipe to an iron pipe at the North end of the park. Layout Line B is perpendicular to Layout Line A.

GENERAL NOTES: DIMENSION

1. Layout of equipment is to center of post.
2. Layout play equipment with safety zones to be staked by the Contractor for review by Owner's Representative prior to play equipment installation.
3. Paving radii shall be formed completely and shall smoothly transition into tangents and adjoining lines. Dimensions are to face of curb and edge of pavement unless otherwise specified.
4. Dimensions are in feet or degrees. Dimensions are perpendicular & parallel unless otherwise noted.
5. See Layout Plan, Sheet 2.0 for additional general notes and referenced specifications and codes.
6. Contractor shall perform all construction layout for the project. Contractor will be provided with an electronic file in AutoCAD format to assist with layout. Neither the Owner nor their representative shall be responsible for setting additional layout points.

Flag Pole Enlargement



LEGEND

- Concrete Paving
- Asphalt Paving
- Asphalt Paving - Court
- EJ Concrete Expansion Joints
- Chainlink Fence
- Point of Beginning



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SHEET TITLE

Dimension Plan - Paving Edges

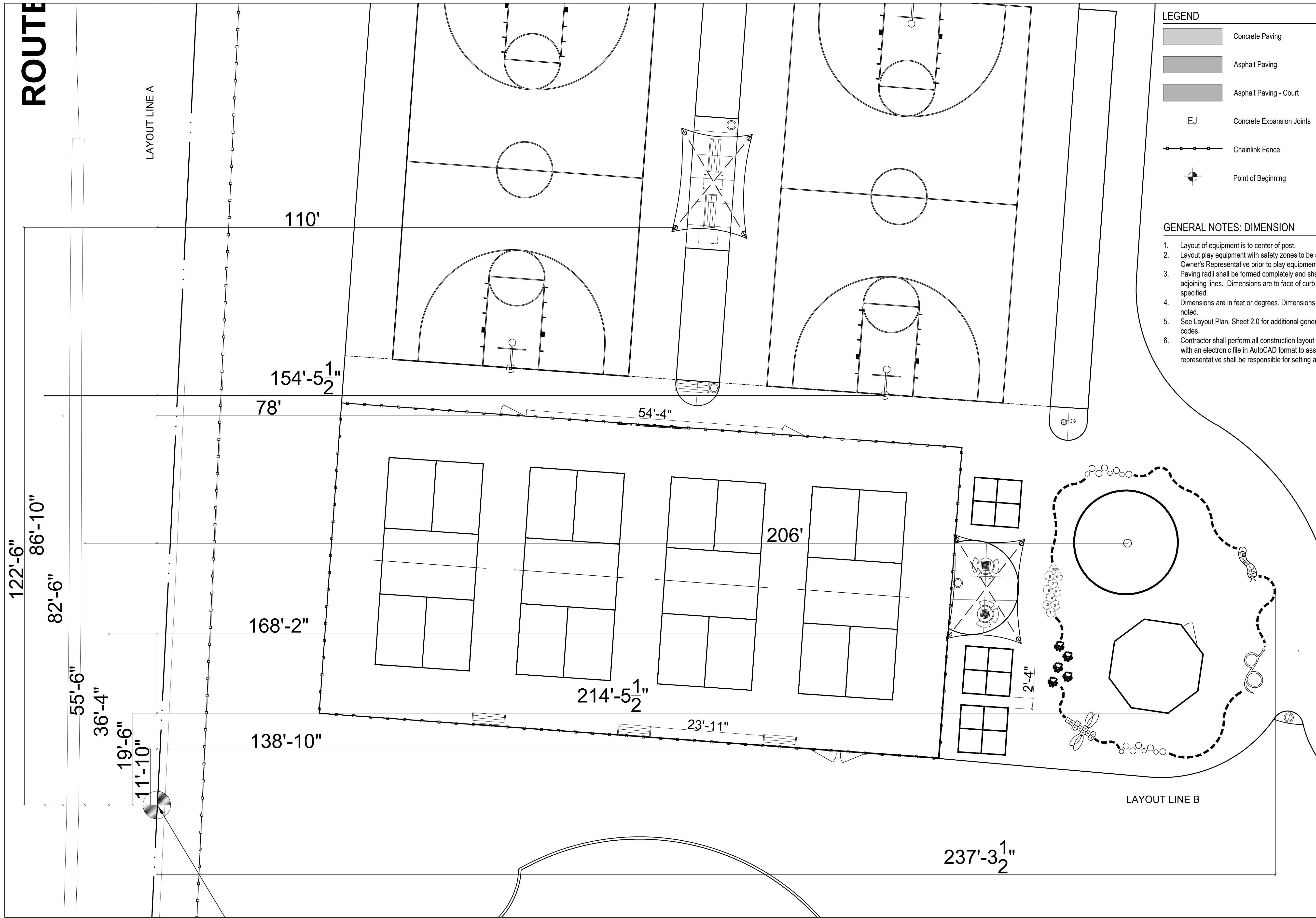
SHEET NUMBER

4.0

DRAW / REVISION

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Pont of beginning is a found Iron Pipe. Layout Line A runs North to South along the centerline of the iron pipe. Layout Line B is perpendicular to Layout Line A.

LEGEND

- Concrete Paving
- Asphalt Paving
- Asphalt Paving - Court
- EJ Concrete Expansion Joints
- Chainlink Fence
- Point of Beginning

- GENERAL NOTES: DIMENSION**
- Layout of equipment is to center of post.
 - Layout play equipment with safety zones to be staked by the Contractor for review by Owner's Representative prior to play equipment installation.
 - Paving radii shall be formed completely and shall smoothly transition into tangents and adjoining lines. Dimensions are to face of curb and edge of pavement unless otherwise specified.
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SHEET TITLE

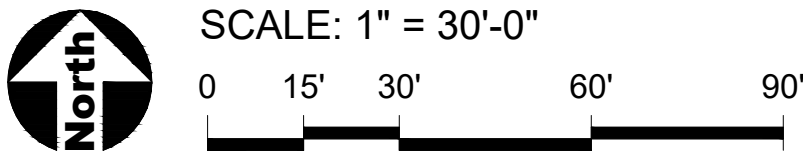
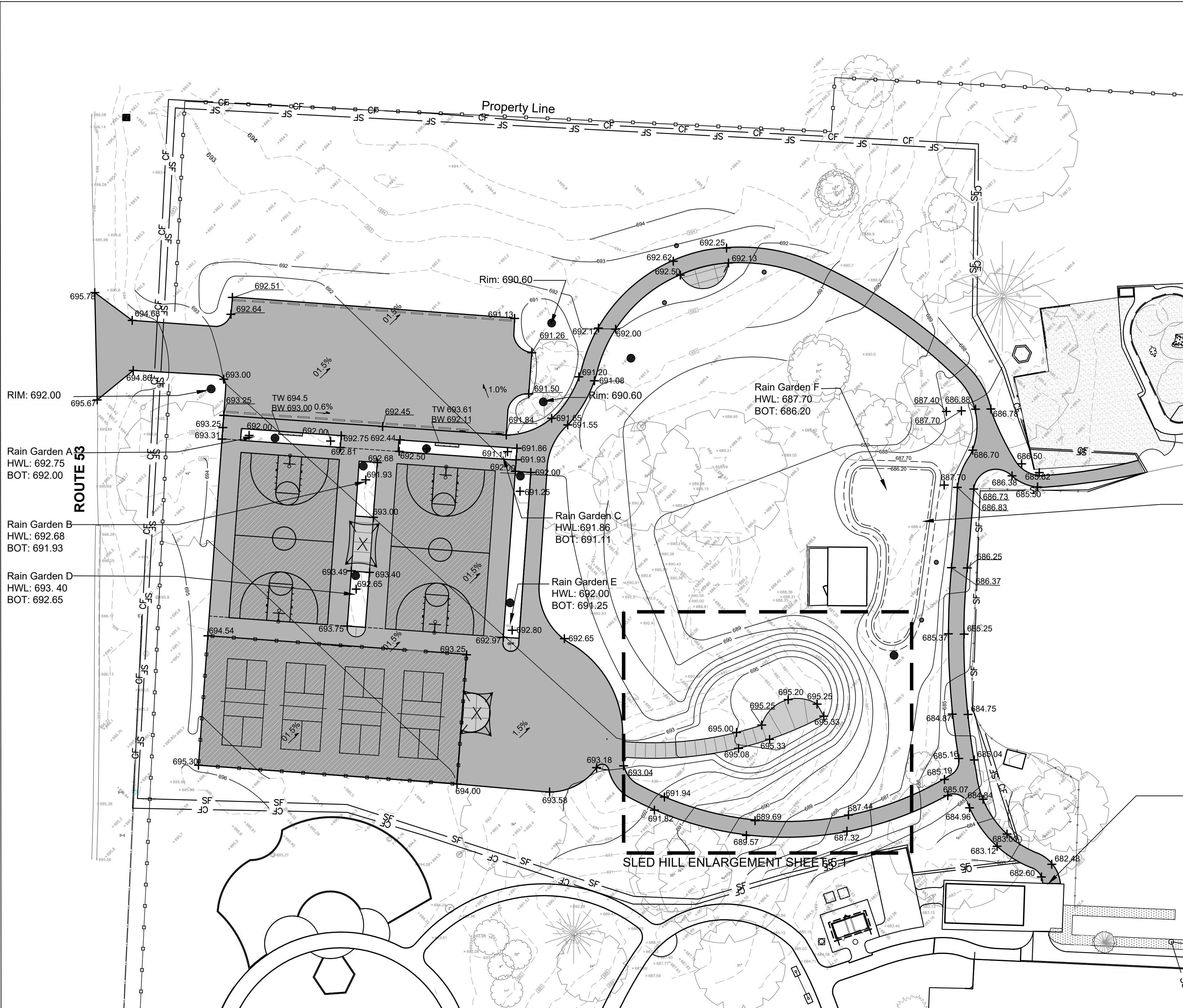
Dimension Plan - Site Furniture and Painted Games

SHEET NUMBER **4.1**

DRAW / REVISION

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GENERAL NOTES: GRADING

1. Finished surfaces to be smooth and even with no abrupt or awkward changes in grade. Paving to meet adjacent grades flush and smooth.
2. Contractor shall restore all areas disturbed as a result of construction.
3. All walks, drives and paved areas are to follow ADA per incorporated specifications. Any deviation shall be removed and reinstalled to follow this law.
4. All Accessible Route paving shall not exceed 4.5% in any direction. Cross slopes shall be less than 2%. Contractor shall slope all walks and slabs to eliminate ponding. ADA Turning Radius paving shall be less than 2% in all directions.
5. This work shall include the excavation, stockpile, and placement of topsoil and suitable excavated material along with removal of all excess topsoil and debris off site and dispose of legally.
6. Follow the Illinois Procedures and Standards for Urban Soil Erosion and Sedimentation Control, IEPA Standards and Specifications for Soil Erosion and Sedimentation Control, and U.S. Soil Conservation Service Field Engineering Handbook.
7. Dimensions are in feet or degrees. Dimensions are perpendicular & Parallel unless otherwise noted.
8. Transitions between paving types (i.e. concrete to asphalt) shall be smooth. Transitions not to exceed 1/8" vertical or horizontal difference.
9. Finished Surfaces to be smooth and even with no abrupt or awkward changes in grade. Paving to meet adjacent grades flush and smooth.



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LEGEND

- 681 --- Existing Contour Line
- 681 — Proposed Contour Line
- + 685.35 Existing Spot Elevation
- + 689.66 Proposed Spot Elevation
- 2% Drainage Flow Direction
- CL — Construction Limits / Construction Fence

INDEX OF ACRONYMS AND ABBREVIATIONS

- HP - High Point
- INV - Pipe Invert Elevation
- LP - Low Point
- ME - Match Existing Elevation
- RIM - Top of Rim Elevation
- TC - Top of Curb
- TP - Top of Pavement
- TW - Top of Wall

SHEET TITLE

Grading Plan

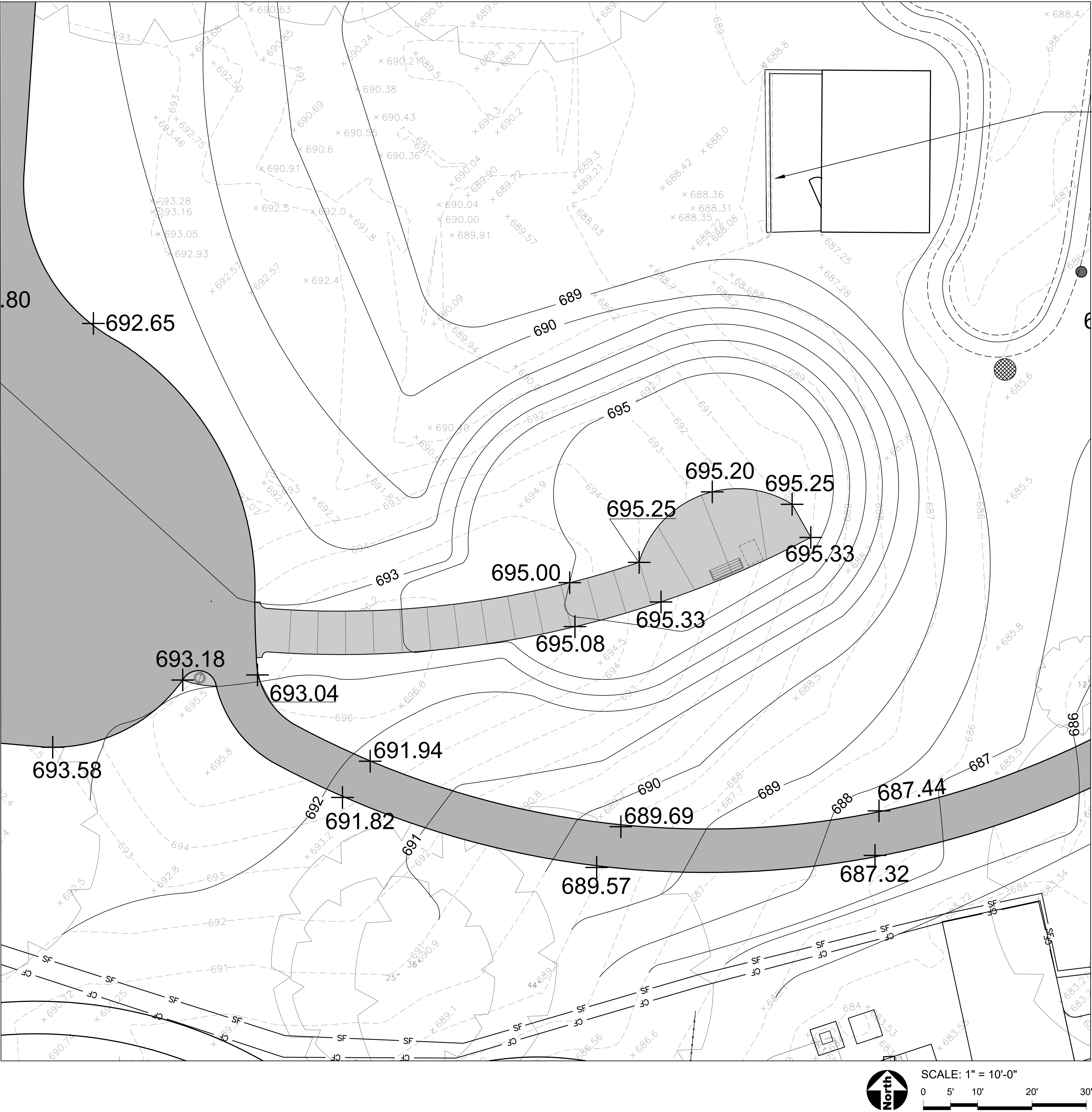
SHEET NUMBER

5.0

DRAW / REVISION

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GENERAL NOTES: GRADING

1. SEE SHEET 5.0



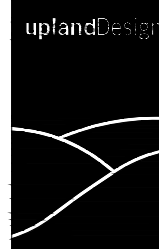
21W730 Butterfield Rd
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Phone: 630-858-2229

PROJECT

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LEGEND

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- 681 — Proposed Contour Line
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INDEX OF ACRONYMS AND ABBREVIATIONS

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SHEET TITLE

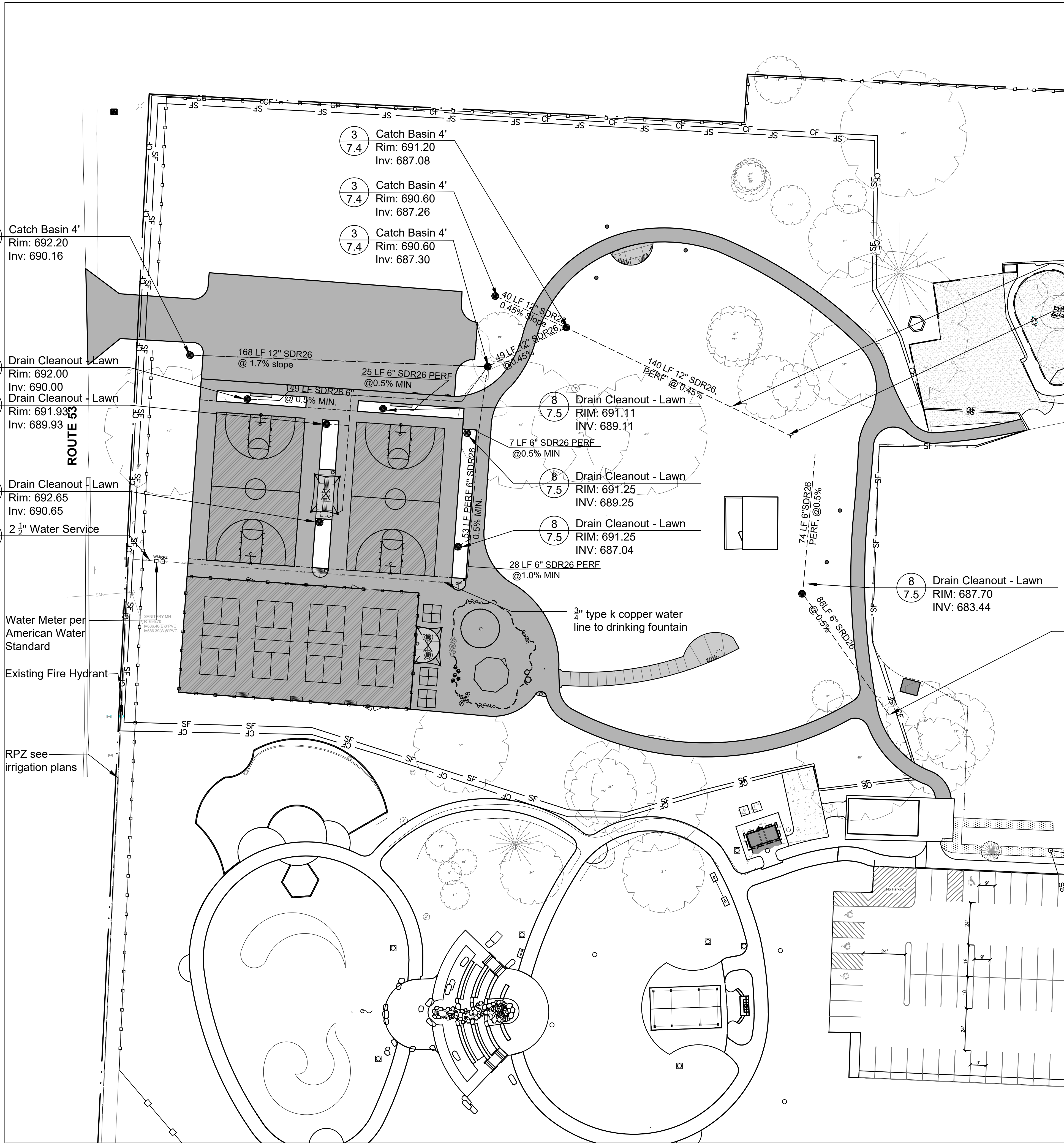
Grading Plan - Sled Hill Enlargement

SHEET NUMBER **5.1**

DRAW / REVISION

LD/JF	Issue for Permit	17JUL2023

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GENERAL NOTES: UTILITY PLAN

- 1. Water system construction shall, in all respects, be in accordance with the regulations of the environmental protection agency of the state of Illinois, and all DuPage County ordinances.
- 2. All domestic water services shall be constructed of type K copper pipe (ASTM B-88), having a minimum internal diameter of 1" (unless otherwise noted).
- 3. Horizontal separation - water and sewers:
 - 3.1. Watermains and services shall be located at least ten (10) feet horizontally from any existing or proposed drain, storm sewer, sanitary sewer, combined sewer or sewer service connection.
 - 3.2. Watermains or services may be located closer than ten (10) feet to a sewer line when:
 - 3.2.1. Local conditions prevent a lateral separation of ten feet; and
 - 3.2.2. The watermain or service invert is at least 18 inches above the crown of the sewer; and
 - 3.2.3. The watermain or service is either in a separate trench or in the same trench on an undisturbed earth shelf located to one side of the sewer.
- 4. Vertical separation - watermains or service and sewers:
 - 4.1. A watermain or service shall be separated from a sewer so that its invert is a minimum of 18 inches above the crown of the drain or sewer whenever watermains or services cross storm sewers, sanitary sewers or sewer service connections. The vertical separation shall be maintained for that portion of the watermain or service located within ten (10) feet horizontally of any sewer or drain crossed. A length of watermain or service pipe shall be centered over the sewer to be crossed with joints equidistant from the sewer or drain.
 - 4.2. The watermain or service or sewer shall be constructed of slip-on or mechanical joint cast or pvc pipe equivalent to watermain standards of construction when:
 - 4.2.1. It is impossible to obtain the proper vertical separation as described in (1) above, or,
 - 4.2.2. The watermain or service passes under a sewer or drain.
 - 4.3. A vertical separation of 18 inches between the invert of the sewer or drain and the crown of the watermain or service shall be maintained where a watermain or service crosses under a sewer. support the sewer or drain lines to prevent settling and breaking the watermain or service, as shown on the plans or approved by the Engineer.
 - 4.4. Construction shall extend on each side of the crossing until the perpendicular distance from the watermain to the sewer or drain line is at least ten feet.
- 5. Installed watermain or service shall be pressure-tested in accordance with DuPage County Department of Public Works prior to final acceptance.
- 6. Installed watermain or service shall be disinfected and tested according to the requirements of the "Standards for Disinfecting Watermains", AWWA C-601, and as required by county code. All disinfection, as required, shall be performed by an independent firm exhibiting experience in the methods and techniques of this operation.
- 7. All new plumbing fixtures must bear the water sense label. DO NOT REMOVE THE WATERSENSE LABEL PRIOR TO PASSING THE FINAL INSPECTION AND HAVE FIXTURE CUT SHEETS ONSITE FOR FINAL INSPECTION.
- 8. A stack test is required on all waste and vent piping at the time of rough and underground inspections.
- 9. 75 psi air test or water on required on all water piping at time of rough inspection.

LEGEND

- 1"W Water Line
- SAN Sanitary Sewer Line
- Storm Sewer Line
- Drain Structure
- Outlet Structure
- Perforated Pipe



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SHEET TITLE

Utility Plan

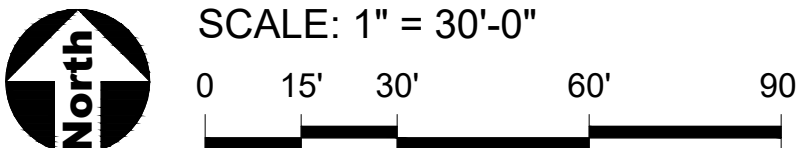
SHEET NUMBER

5.2

DRAW / REVISION

LD/JF	Issue for Permit	17JUL2023

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GENERAL NOTES: LANDSCAPE

1. See Sheet 6.0 for landscape notes.

Plant List

Shade Trees - Balled and Burlap			
Qty.	Size	Botanical Name	Common Name
2	2.5" cal.	<i>Acer miyabei</i> 'Morton'	State Street Miyabe's Maple
1	2.5" cal.	<i>Carpinus caroliniana</i>	American Hornbeam
3	2.5" cal.	<i>Carya ovata</i>	Shagbark Hickory
4	2.5" cal.	<i>Celtis occidentalis</i>	Hackberry
3	2.5" cal.	<i>Ginkgo biloba</i> 'Autumn Gold'	Autumn Gold Ginkgo
2	2.5" cal.	<i>Gymnocladus dioicus</i> 'Espresso'	Espresso Kentucky Coffeetree Tree
1	2.5" cal.	<i>Liriodenron tulipifera</i>	Tuliptree
1	2.5" cal.	<i>Ostrya virginiana</i>	Ironwood
2	2.5" cal.	<i>Quercus bicolor</i>	Swamp White Oak
1	2.5" cal.	<i>Quercus alba</i>	White Oak
1	2.5" cal.	<i>Quercus imbricaria</i>	Shingle Oak
1	2.5" cal.	<i>Tilia americana</i>	American Linden
20	Total		

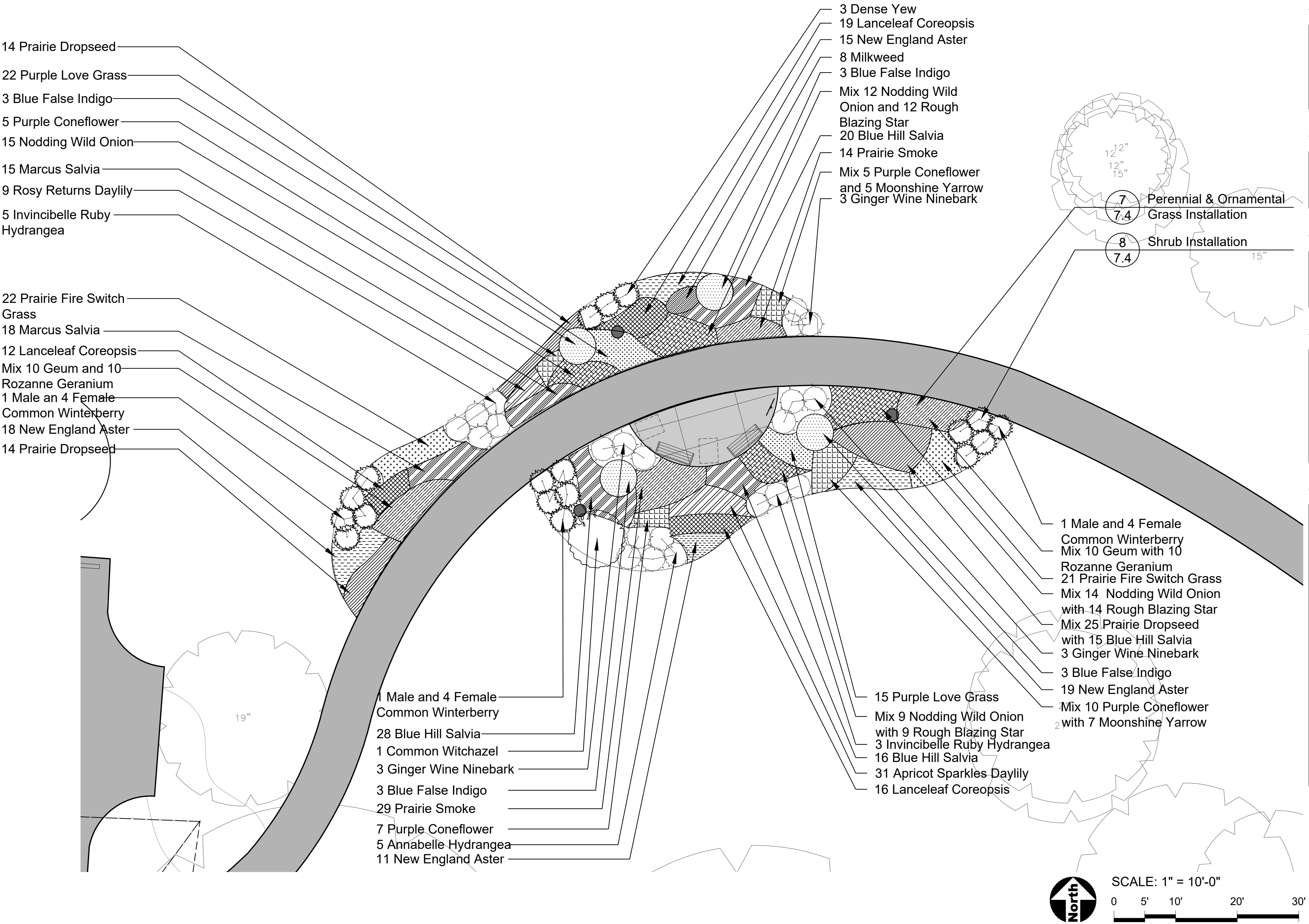
Ornamental Trees - Balled and Burlap			
Qty.	Size	Botanical Name	Common Name
6	6' High	<i>Amelanchier laevis</i>	Allegheny Serviceberry
6	6' High	<i>Cercis canadensis</i>	Eastern Redbud
6	6' High	<i>Malus</i> 'Donald Wyman'	Donaly Wyman Crabapple
1	6' High	<i>Magnolia stellata</i> 'Royal Star'	Star Magnolia
6	6' High	<i>Syringa pekinensis</i> 'Morton'	China Snow Peking Lilac
25	Total		

Evergreen Trees - Balled and Burlap			
Qty.	Size	Botanical Name	Common Name
5	2.5" cal.	<i>Picea glauca</i> var. <i>densata</i>	Black Hills Spruce
6	2.5" cal.	<i>Picea omorika</i>	Serbian spruce
12	2.5" cal.	<i>Pinus flexilis</i> 'Vanderwolf's Pyramid'	Vanderwolf Limber Pine
23	Total		

Evergreen Shrubs - Balled and Burlap or Pot			
Qty.	Size	Botanical Name	Common Name
8	24" Ht. x 24" Spr.	<i>Taxus x media</i> 'Densiformis'	Dense Yew
4	24" Ht. x 24" Spr.	<i>Ilex verticillata</i>	Male Common winterberry
16	24" Ht. x 24" Spr.	<i>Ilex verticillata</i>	Female Common winterberry
28	Total		

Deciduous Shrubs - Balled and Burlap or Pot			
Qty.	Size	Botanical Name	Common Name
3	#5 cont., 24" Ht.	<i>Aronia melanocarpa</i> 'Morton' 'Iroquois Beauty'	Black Chokeberry
12	#5 cont., 24" Ht.	<i>Hydrangea arborescens</i> 'Annabelle'	Annabelle Hydrangea
11	24" Ht. x 24" Spr.	<i>Hydrangea arborescens</i> 'NCHA3'	Invincible Ruby Hydrangea
1	24" Ht. x 24" Spr.	<i>Hamamelis virginiana</i>	Common witchazel
17	#5 cont., 24" Ht.	<i>Physocarpus opulifolius</i> 'SMNPOBLR'	Ginger Wine Ninebark
3	#5 cont., 24" Ht.	<i>Syringa</i> 'Charles Joly'	Charles Joly Lilac
3	#5 cont., 24" Ht.	<i>Viburnum dentatum</i> 'Christom' 'Blue Muffin'	Blue Muffin Arrowwood Viburnum
20	Total		

Perennials, Ornamental Grasses, and Groundcovers			
Qty.	Size	Botanical Name	Common Name
12	#1 cont.	<i>Achillea millefolium</i> 'Moonshine'	Moonshine Yarrow
50	#1 cont.	<i>Allium cernuum</i>	Nodding Wild Onion
8	#1 cont.	<i>Asclepias incamata</i> 'Soulmate'	Milkweed
33	#1 cont.	<i>Asclepias tuberosa</i> 'Gay Butterflies'	Butterfly Weed
27	#1 cont.	<i>Baptisia australis</i>	Blue False Indigo
108	#1 cont.	<i>Coreopsis lanceolata</i>	Lanceleaf Coreopsis
32	#1 cont.	<i>Echinacea purpurea</i>	Purple Coneflower
55	#1 cont.	<i>Eragrostis spectabilis</i>	Purple Lovegrass
38	#1 cont.	<i>Geranium</i> 'Gervat' 'Rozanne'	Rozanne Geranium
69	#1 cont.	<i>Geum flora plena</i> 'Blazing Sunset'	Geum
43	#1 cont.	<i>Geum triflorum</i>	Prairie Smoke
72	#1 cont.	<i>Hemerocallis</i> 'Apricot Sparkles'	Apricot Sparkles Daylily
9	#1 cont.	<i>Hemerocallis</i> 'Rosy Returns'	Rosy Returns Daylily
35	#1 cont.	<i>Liatris aspera</i>	Rough Blazing Star
69	#1 cont.	<i>Panicum virgatum</i> 'Prairie Fire'	Prairie Fire Switch Grass
56	#1 cont.	<i>Salvia nemorosa</i> 'Haeumanarc'	Marcus Salvia
99	#1 cont.	<i>Salvia x sylvestris</i> 'Blauhugel'	Blue Hill Salvia
117	#1 cont.	<i>Sporobolus heterolepis</i>	Prairie Dropseed
97	#1 cont.	<i>Symphytrichum novae-angliae</i>	New England Aster
1029	Total		



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SHEET TITLE

Landscape Enlargement - Bird Habitat 1

SHEET NUMBER **6.1**

DRAW / REVISION

LD/JF	Issue for Permit	17JUL2023

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1. See Sheet 6.0 for landscape notes.



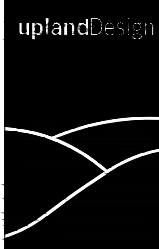
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SHEET TITLE

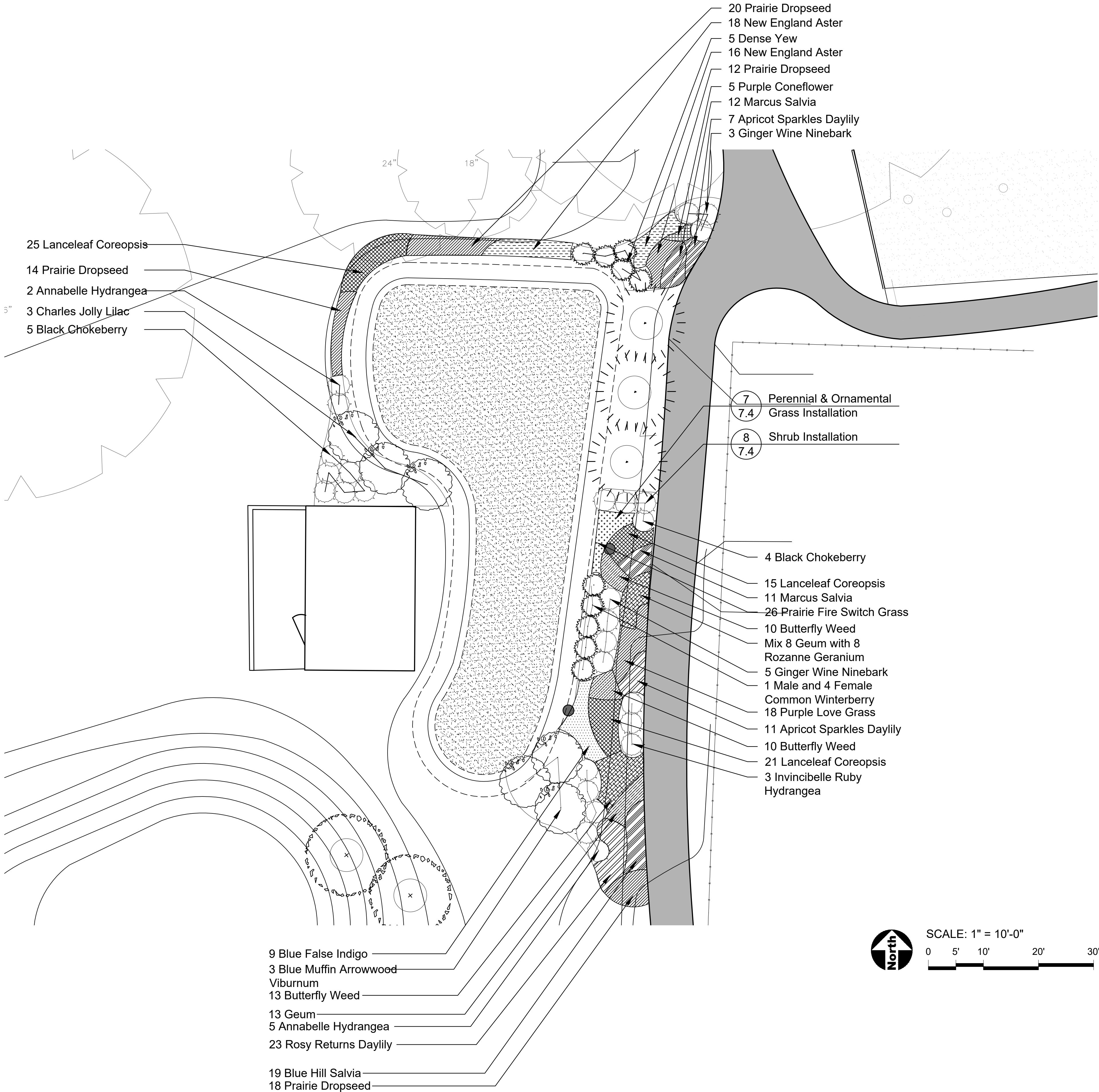
Landscape
Enlargement -
Bird Habitat 2

SHEET NUMBER
6.2

DRAW / REVISION

LD/JF	Issue for Permit	17JUL2023

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LEGEND

- Shade Tree
- Ornamental Tree
- Evergreen Tree
- Shrub
- Ornamental Grass
- Perennial and Groundcover (hatch symbol varies)



- 
- Butterfield
PARK DISTRICT

PROJECT

Glenbriar OSLAD Phase III Development

PROJECT TEAM



ENGINEER

SURVEYOR

SHEET TITLE

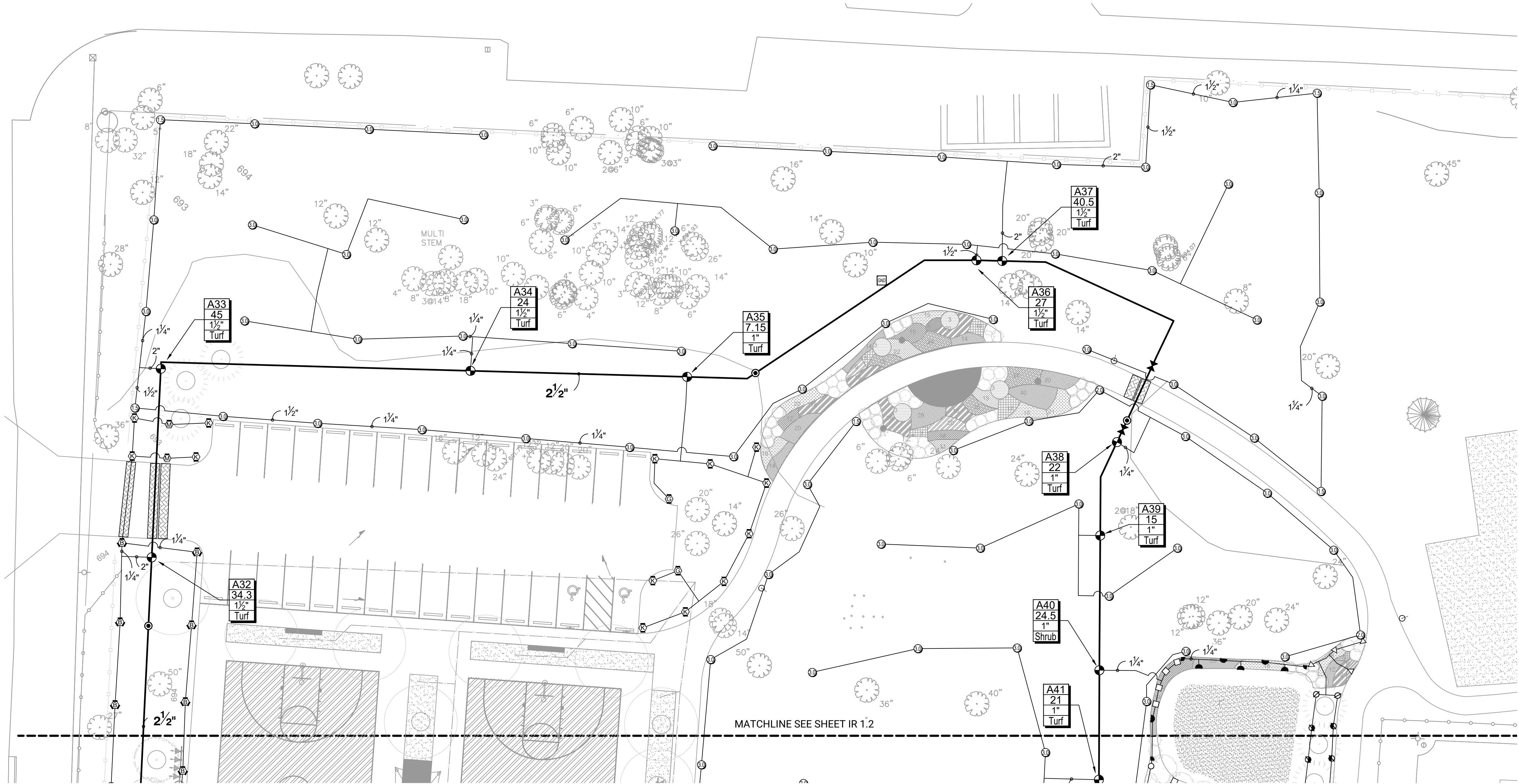
Landscape Enlargement - Bulb Planting

SHEET NUMBER

6.3

DRAW / REVISION

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INSTALLATION GENERAL NOTES

- THE SYSTEM DESIGN ASSUMES A MINIMUM DYNAMIC PRESSURE FOR THE IRRIGATION SYSTEM OF 80 PSI (PER CITY ENGINEER), AT A DESIGN FLOW OF 88 GPM AT THE 2-INCH IRRIGATION POINT-OF-CONNECTION (POC). TAP, METER, BACKFLOW PREVENTER, MASTER VALVE AND FLOW METER SHALL BE SIZED AS INDICATED IN THE DRAWING LEGEND. VERIFY PRESSURE AND FLOW ON SITE PRIOR TO CONSTRUCTION.
- READ THOROUGHLY AND BECOME FAMILIAR WITH THE SPECIFICATIONS AND INSTALLATION DETAILS FOR THIS AND RELATED WORK PRIOR TO CONSTRUCTION.
- COORDINATE UTILITY LOCATES ("CALL BEFORE YOU DIG") OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- DO NOT PROCEED WITH THE INSTALLATION OF THE IRRIGATION SYSTEM WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS OR GRADE DIFFERENCES EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. IF DISCREPANCIES IN CONSTRUCTION DETAILS, LEGEND, NOTES, OR SPECIFICATIONS ARE DISCOVERED, BRING ALL SUCH OBSTRUCTIONS OR DISCREPANCIES TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
- THE DRAWINGS ARE DIAGRAMMATIC. THEREFORE, THE FOLLOWING SHOULD BE NOTED:
 - ALTHOUGH IRRIGATION COMPONENTS MAY BE SHOWN OUTSIDE PLANTING AREAS FOR CLARITY, INSTALL IRRIGATION PIPE AND WIRING IN LANDSCAPED AREAS WHENEVER POSSIBLE.
 - TREE AND SHRUB LOCATIONS AS SHOWN ON LANDSCAPE PLANS TAKE PRECEDENCE OVER IRRIGATION EQUIPMENT LOCATIONS. AVOID CONFLICTS BETWEEN THE IRRIGATION SYSTEM, PLANTING MATERIALS, AND ARCHITECTURAL FEATURES.
 - USE ONLY STANDARD TEES AND ELBOW FITTINGS. USE OF TEES IN THE BULLNOSE CONFIGURATION, OR USE OF CROSS TYPE FITTINGS IS NOT ALLOWED.
- PROVIDE THE FOLLOWING COMPONENTS TO THE OWNER PRIOR TO THE COMPLETION OF THE PROJECT:
 - TWO (2) OPERATING KEYS FOR EACH TYPE OF MANUALLY OPERATED VALVES.
 - TWO (2) OF EACH SERVICING WRENCH OR TOOL NEEDED FOR COMPLETE ACCESS, ADJUSTMENT, AND REPAIR OF ALL ROTARY SPRINKLERS.
- SELECT NOZZLES FOR SPRAY AND ROTARY SPRINKLERS WITH ARCS WHICH PROVIDE COMPLETE AND ADEQUATE COVERAGE WITH MINIMUM OVERSPRAY FOR THE SITE CONDITIONS. CAREFULLY ADJUST THE RADIUS OF THROW AND ARC OF COVERAGE OF EACH ROTARY SPRINKLER TO PROVIDE THE BEST PERFORMANCE.
- THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF IRRIGATION SLEEVING. SLEEVES ARE REQUIRED FOR BOTH PIPING AND ELECTRICAL WIRING AT EACH HARDSCAPE CROSSINGS. COORDINATE INSTALLATION OF SLEEVING WITH OTHER TRADES. ANY PIPE OR WIRE WHICH PASSES BENEATH EXISTING HARDSCAPE WHERE SLEEVING WAS NOT INSTALLED WILL REQUIRE HORIZONTAL BORING BY THE IRRIGATION CONTRACTOR. PIPE SLEEVES SHALL BE SIZED TWICE THE NOMINAL SIZE OF THE PIPE PASSING THROUGH.
- INSTALL ALL ELECTRICAL POWER TO THE IRRIGATION CONTROL SYSTEM IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND ALL APPLICABLE LOCAL ELECTRIC UTILITY CODES.
- THE FOLLOWING SHOULD BE NOTED REGARDING PIPE SIZING: IF A SECTION OF UNSIZED PIPE IS LOCATED BETWEEN TWO IDENTICALLY SIZED SECTIONS, THE UNSIZED PIPE IS THE SAME NOMINAL SIZE AS THE TWO SIZED SECTIONS. THE UNSIZED PIPE SHOULD NOT BE CONFUSED WITH THE DEFAULT PIPE SIZE NOTED IN THE LEGEND.
- INSTALL ONE (1) #14 AWG TWO-WIRE PAIR ON TWO-WIRE SYSTEMS, FOR USE AS SPARES. INSTALL SPARE WIRES FROM CONTROLLER LOCATION TO EACH DEAD-END OF MAINLINE. COIL 3 FEET OF WIRE IN VALVE BOX.

CONSTRUCTION NOTES

- THE IRRIGATION SYSTEM POINT-OF-CONNECTION (POC) SHALL BE DOWNSTREAM OF THE IRRIGATION WATER TAP AND METER INSTALLED BY OTHERS AT THE APPROXIMATE LOCATION SHOWN. INSTALL BACKFLOW PREVENTION UNIT AND MASTER VALVE ASSEMBLY AS INDICATED. VERIFY EXACT LOCATION OF POC WITH OWNER'S REPRESENTATIVE.
- WALL MOUNT THE IRRIGATION CONTROLLER AT THE APPROXIMATE LOCATION SHOWN. COORDINATE ELECTRICAL POWER TO THE CONTROLLER WITH THE OWNER'S REPRESENTATIVE. CARE SHOULD BE TAKEN TO INSTALL THE IRRIGATION CONTROLLER IN A LOCATION THAT IS ACCESSIBLE FOR MAINTENANCE, AND SCREENED FROM VIEW EITHER BEHIND ENTRY WALLS, NEXT TO BUILDINGS, OR BEHIND PLANT MATERIAL. FINAL LOCATION TO BE APPROVED BY OWNER'S REPRESENTATIVE.
- IRRIGATION LINES AND HEADS LOCATED WITHIN TREE PROTECTION FENCES (TPF) SHALL BE INSTALLED BY HAND TO AVOID DAMAGE TO EXISTING TREES.

ESTIMATED ANNUAL WATER USE

THE IRRIGATION SYSTEM AS SHOWN ON THIS PLAN HAS AN ESTIMATED ANNUAL WATER USE OF 2,029,960 GALLONS. TO VERIFY EFFICIENT IRRIGATION SYSTEM OPERATION, THE OWNER SHALL COMPARE THIS ESTIMATED IRRIGATION WATER USE WITH ACTUAL WATER USE, AS RECORDED ON SITE, AFTER ALL PLANT MATERIAL HAS BEEN ESTABLISHED.

THE ESTIMATED ANNUAL IRRIGATION WATER USE OF THIS SYSTEM IS BASED ON 30-YEARS AVERAGE EVAPOTRANSPIRATION RATES (ET) FOR THE LOCAL AREA AND TYPICAL NEW IRRIGATION SYSTEM EQUIPMENT EFFICIENCIES. MAJOR DEVIATIONS FROM THIS ESTIMATE USE SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER AND CURRENT IRRIGATION MAINTENANCE COMPANY AT THE TIME OF THE DEVIATION.

TO VERIFY EFFICIENT IRRIGATION SYSTEM OPERATION AND WATER USE, AN IRRIGATION SYSTEM EVALUATION AND AUDIT SHOULD BE PERFORMED.

IRRIGATION SLEEVE LEGEND

* ALL SLEEVES SHALL BE CLASS 200 PVC AND SIZED TWICE THE NOMINAL SIZE OF THE PIPE PASSING THROUGH, ALL CONTROL WIRE SLEEVES SHALL BE 2-INCH

IRRIGATION LEGEND

- SLEEVES: CLASS 200 PVC
- POINT-OF-CONNECTION ASSEMBLY
- MAINLINE PIPE: CLASS 200 PVC
2 1/2-INCH SIZE UNLESS OTHERWISE INDICATED
- LATERAL PIPE TO SPRINKLERS: CLASS 200 PVC
1-INCH SIZE UNLESS OTHERWISE INDICATED
- UNCONNECTED PIPE CROSSING
- ⊕ REMOTE CONTROL VALVE ASSEMBLY FOR SPRINKLER LATERALS:
HUNTER ICV (SIZED PER PLAN) W/ICD-100 DECODER
- ⊙ QUICK COUPLING VALVE ASSEMBLY: HUNTER HQ-5RC
- ⌘ ISOLATION GATE VALVE ASSEMBLY: MATCO 514
- ⌚ FLOW SENSOR ASSEMBLY: HUNTER HFS WITH FCT-200 W/FLOW CLICK SENSOR
- ⌘ BACKFLOW PREVENTION ASSEMBLY: FEBCO 825YA (2")
- ⌘ MASTER VALVE ASSEMBLY: IRRITROL 100P1.5 N.O. VALVE W/ ICD-100 DECODER
- DECODER CABLE FUSE DEVICE (DCFD) WITH LIGHTNING PROTECTION: PAIGE P7407D

- A1
14
1"
Turf
- INDICATES CONTROLLER AND STATION NUMBER
- INDICATES LATERAL DISCHARGE (GPM)
- INDICATES VALVE SIZE (INCHES)
- INDICATES LANDSCAPE APPLICATION

- A IRRIGATION CONTROLLER UNIT
WITH HUNTER WRF-CLK SENSOR
A2C-LTE COMMUNICATION MODULE
HUNTER ACC2 2 WIRE CONTROLLER

POP-UP GEAR DRIVEN ROTORS: HUNTER I-20-06-SS PRESSURE: 45 PSI			
NOZZLE	RADIUS	FLOW	
1.5	31'	1.5 GPM	
2.0	34'	2.0 GPM	
2.5	35'	2.5 GPM	
3.0	38'	3.0 GPM	
4.0	40'	4.0 GPM	
5.0	42'	5.0 GPM	
6.0	43'	6.0 GPM	
8.0	44'	8.0 GPM	

- ◆ ■ POP-UP SPRAY SPRINKLER: HUNTER PROS-12-PRS30-CV W/8 SERIES NOZZLE
PRESSURE: 30 PSI RADIUS: 8 FEET
FLOW (GPM): Q-0.24 H-0.47 F-0.97
- ◆ ■ POP-UP SPRAY SPRINKLER: HUNTER PROS-12-PRS30-CV W/10 SERIES NOZZLE
PRESSURE: 30 PSI RADIUS: 10 FEET
FLOW (GPM): Q-0.42 H-0.88 F-1.59
- ▲ ▲ POP-UP SPRAY SPRINKLER: HUNTER PROS-12-PRS30-CV W/12 SERIES NOZZLE
PRESSURE: 30 PSI RADIUS: 12 FEET
FLOW (GPM): Q-0.67 H-1.30 F-2.70
- ● POP-UP SPRAY SPRINKLER: HUNTER PROS-12-PRS30-CV W/15 SERIES NOZZLE
PRESSURE: 30 PSI RADIUS: 15 FEET
FLOW (GPM): Q-0.97 H-1.86 F-3.75
- ● ▲ ○ POP-UP SPRAY SPRINKLER: HUNTER PROS-12-PRS30-CV W/ ADJUSTABLE NOZZLE
PRESSURE: 30 PSI RADIUS: 5 FEET TO 15 FEET
FLOW (GPM): 08A-0.44 10A-0.50 12A-0.32 15A-0.47
- ● POP-UP SPRAY SPRINKLER: HUNTER PROS-12-PRS30-CV W/15SS SERIES NOZZLE
PRESSURE: 30 PSI RADIUS: 5 FEET X 15 FEET
FLOW (GPM): ES515-0.65 SS530-1.30
- ⊗ ⊗ ⊗ POP-UP ROTATING SPRAY SPRINKLER: HUNTER PROS-06-PRS40-CV
W/MP1000 NOZZLES
PRESSURE: 40 PSI RADIUS: 8 FEET TO 15 FEET
FLOW (GPM): M-0.42 L-0.63 O-0.84
- ⊗ ⊗ ⊗ POP-UP ROTATING SPRAY SPRINKLER: HUNTER PROS-06-PRS40-CV
W/MP2000 NOZZLES
PRESSURE: 40 PSI RADIUS: 13 FEET TO 21 FEET
FLOW (GPM): K-0.77 G-1.10 R-1.48
- ⊗ ⊗ ⊗ POP-UP ROTATING SPRAY SPRINKLER: HUNTER PROS-06-PRS40-CV
W/MP3000 NOZZLES
PRESSURE: 40 PSI RADIUS: 22 FEET TO 30 FEET
FLOW (GPM): B-1.82 Y-2.73 A-3.64
- ⊗ POP-UP ROTATING SPRAY SPRINKLER: HUNTER PROS-06-PRS40-CV
W/MPCORNER NOZZLE
PRESSURE: 40 PSI RADIUS: 8 FEET TO 14 FEET
FLOW (GPM): 45°-0.19 90°-0.39 105°-0.45
- ⊗ ⊗ ⊗ POP-UP ROTATING SPRAY SPRINKLER: HUNTER PROS-06-PRS40-CV
W/MPSTRIP NOZZLES
PRESSURE: 40 PSI RADIUS: ADJUSTABLE RECTANGULAR SPRAY
FLOW (GPM): SST - 5'X30'-0.22 LCS/RCS - 4'X15'-0.44

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SHEET TITLE

IRRIGATION PLAN

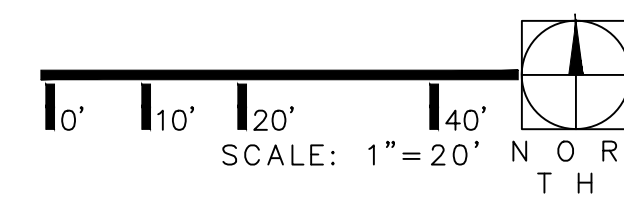
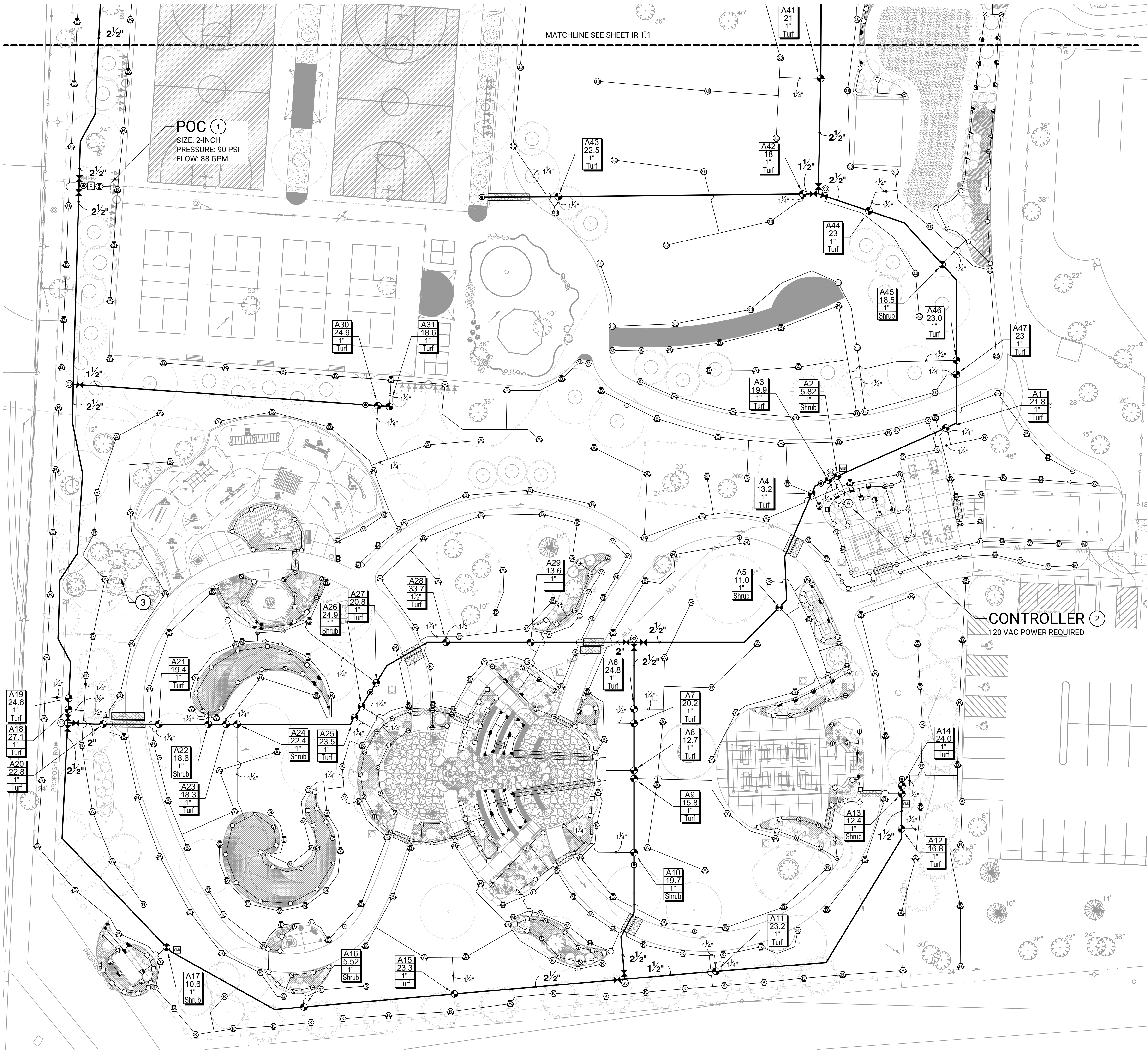
SHEET NUMBER

IR-1.1

DRAW / REVISION

LD/JF	50% Submittal	15JUN2023
DM/MT	100% Submittal	30JUN2023
DM/MT	REVISIONS	04AUG2023

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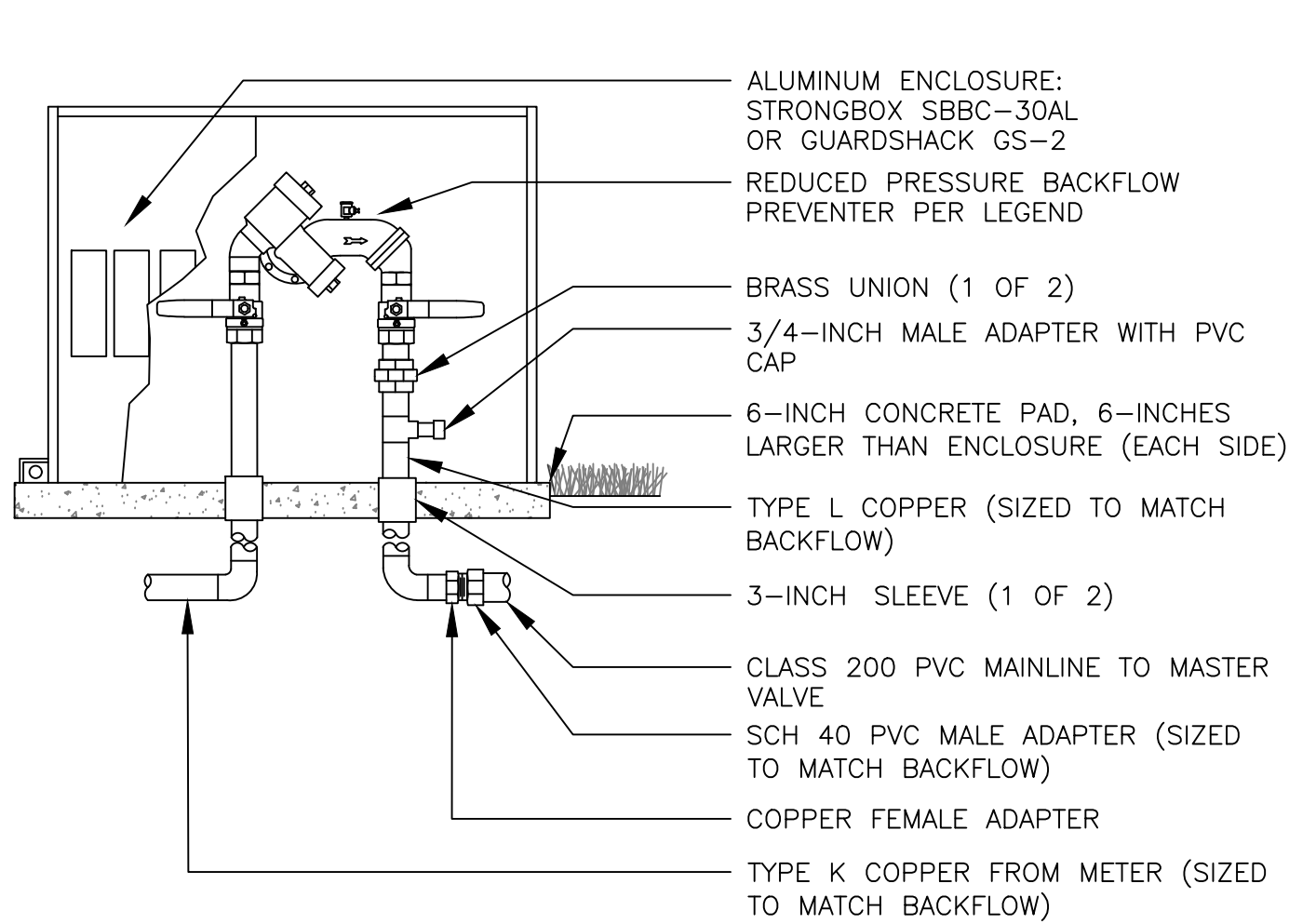
IRRIGATION PLAN

SHEET NUMBER
IR-1.2

DRAW / REVISION

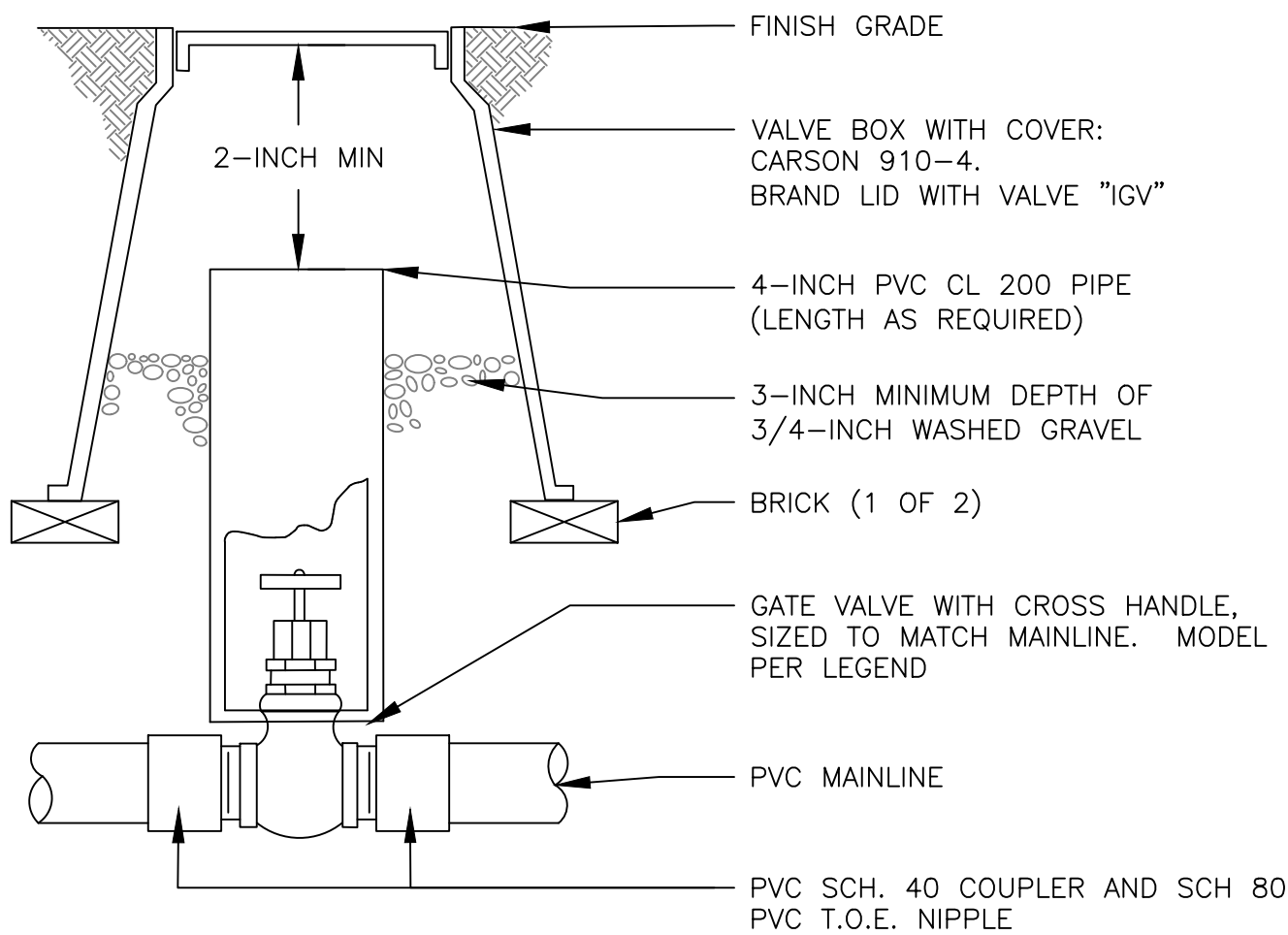
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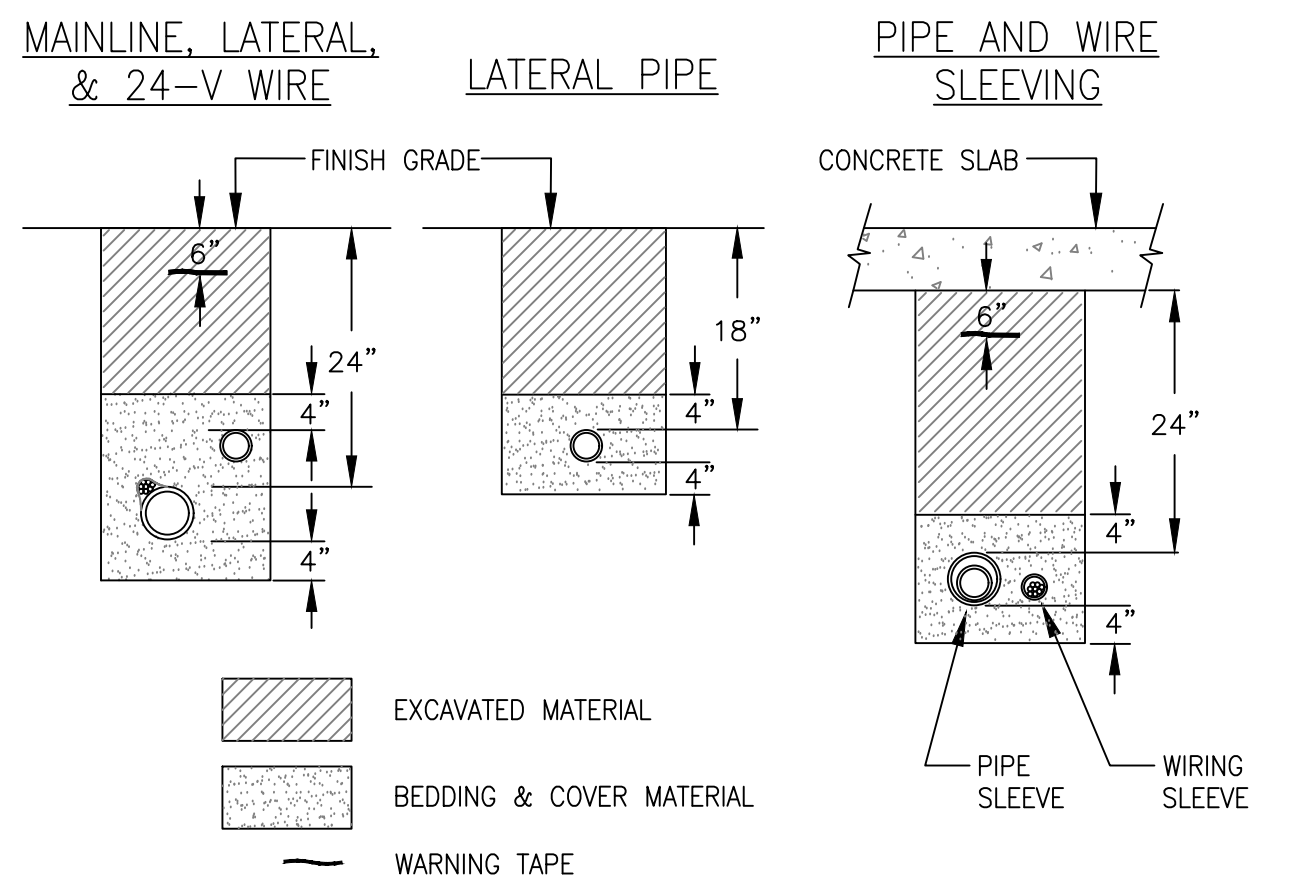
- NOTES:
1. INSTALL BACKFLOW DEVICE IN ACCORDANCE WITH ALL STATE AND LOCAL CODE REQUIREMENTS.
 2. SLOPE TOP SURFACE OF PAD AT 0.5 % WITH BROOM FINISH.
 3. MAKE PIPE SLEEVES WITH 1-1/2 INCH LARGER DIAMETER PIPE THAN PENETRATING PIPE SIZE.
 4. ALL HINGED CONNECTION LOCATIONS AND HARDWARE TO BE TAMPER PROOF.
 5. ALL WELD JOINTS SHALL BE CONTINUOUS AND GROUND SMOOTH.

1 BACKFLOW PREVENTION UNIT ASSEMBLY



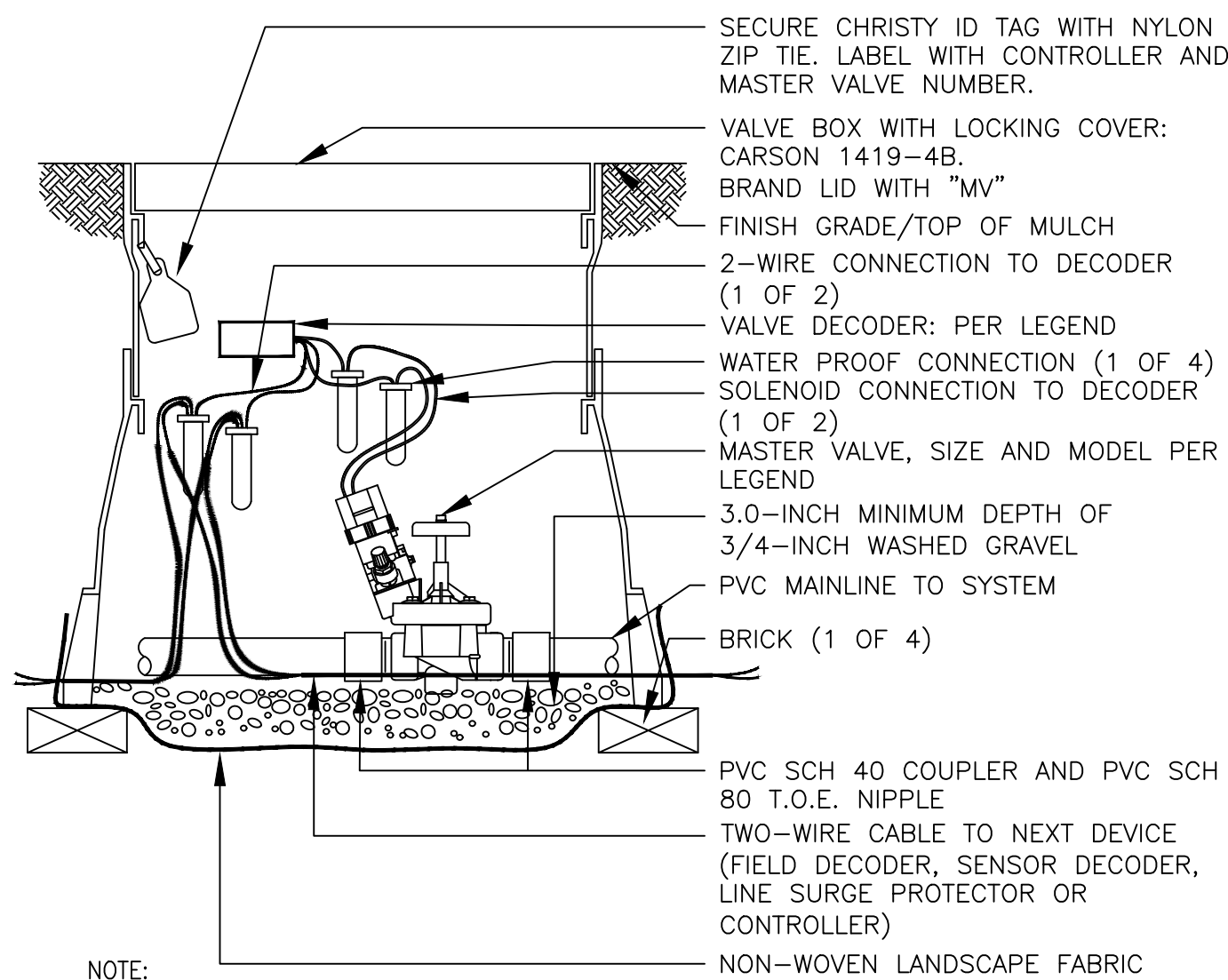
- NOTES:
1. NOMINAL SIZE OF GATE VALVE TO MATCH NOMINAL MAINLINE SIZE.

5 ISOLATION GATE VALVE ASSEMBLY 2.5-INCH MAINLINE AND SMALLER



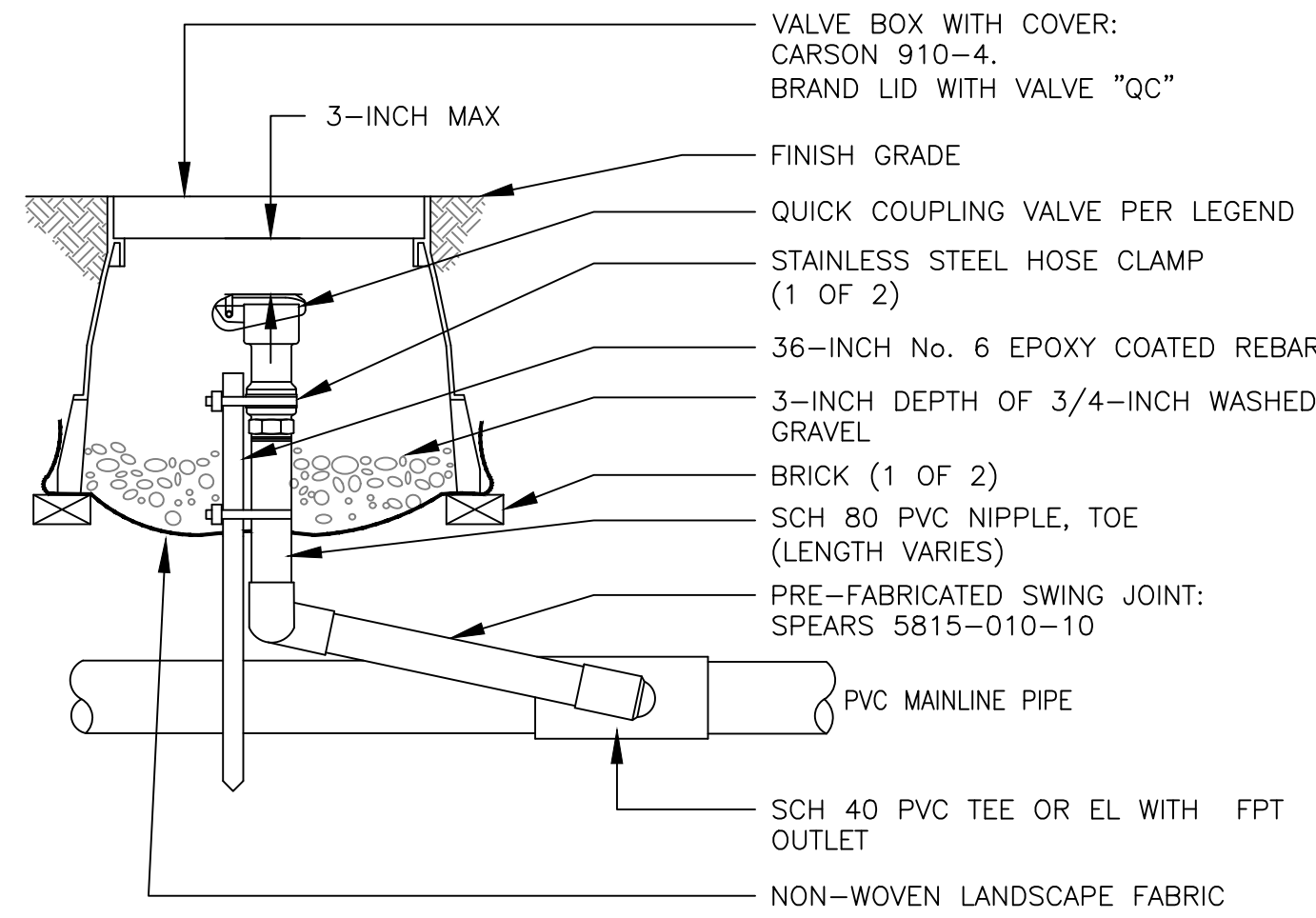
- NOTES:
1. SLEEVE ALL PIPE AND WIRE SEPARATELY.
 2. ALL PIPE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. "SNAKE" UNSLEEVED PLASTIC PIPE IN TRENCH. PROVIDE A MINIMUM OF 2" CLEARANCE TO SIDE OF TRENCH AND BETWEEN PIPES.
 3. ALL 120-V WIRING SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS. PROVIDE LOOSE 20" LOOP OF 2-WIRE CABLE AT ALL CHANGES OF DIRECTION OVER 30 DEGREES.

9 TYPICAL TRENCHING DETAIL

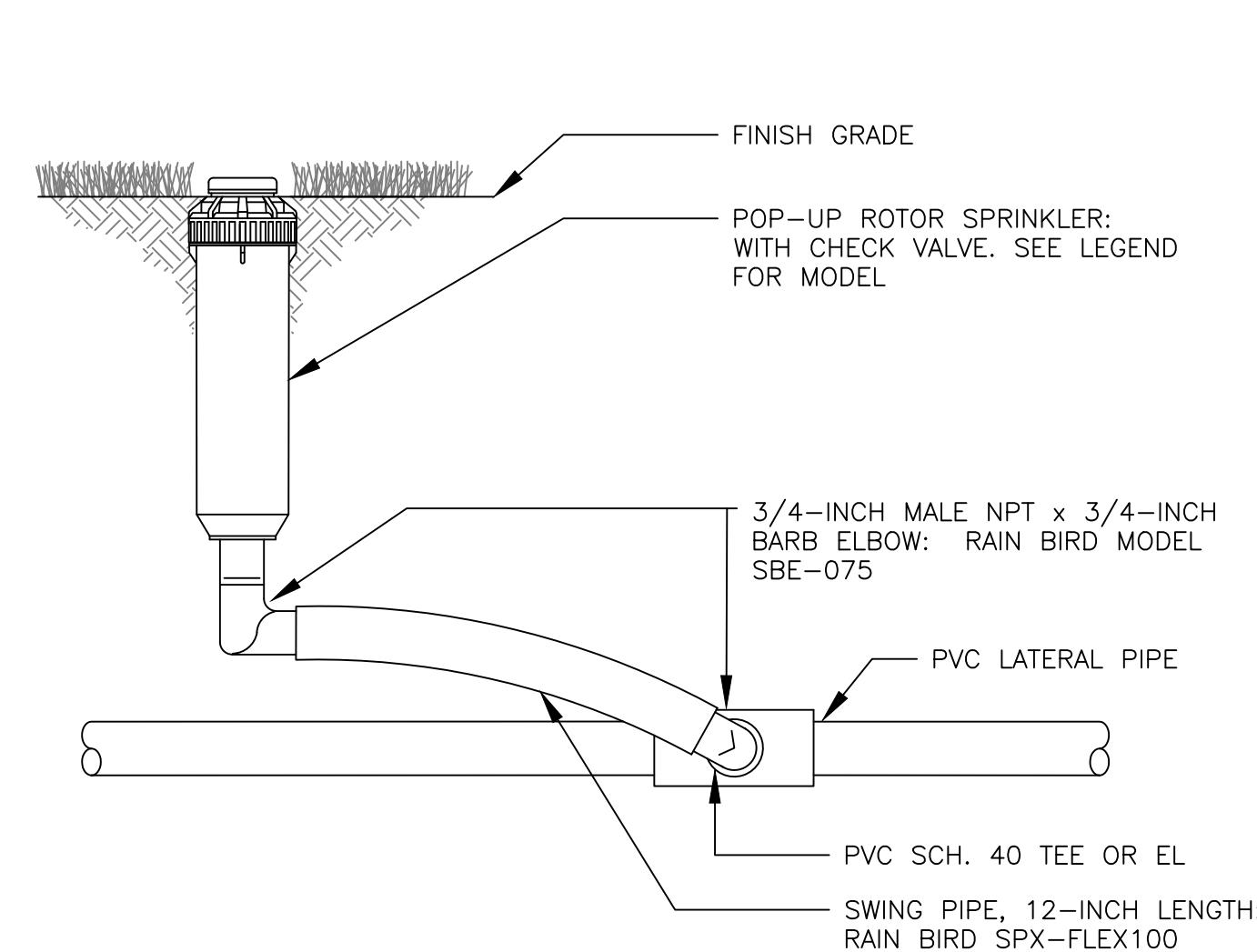


- NOTE:
1. PLACE 36-INCHES OF EXTRA 2-WIRE CABLE IN EVERY VALVE BOX FOR EASIER SERVICING.

2 MASTER VALVE ASSEMBLY

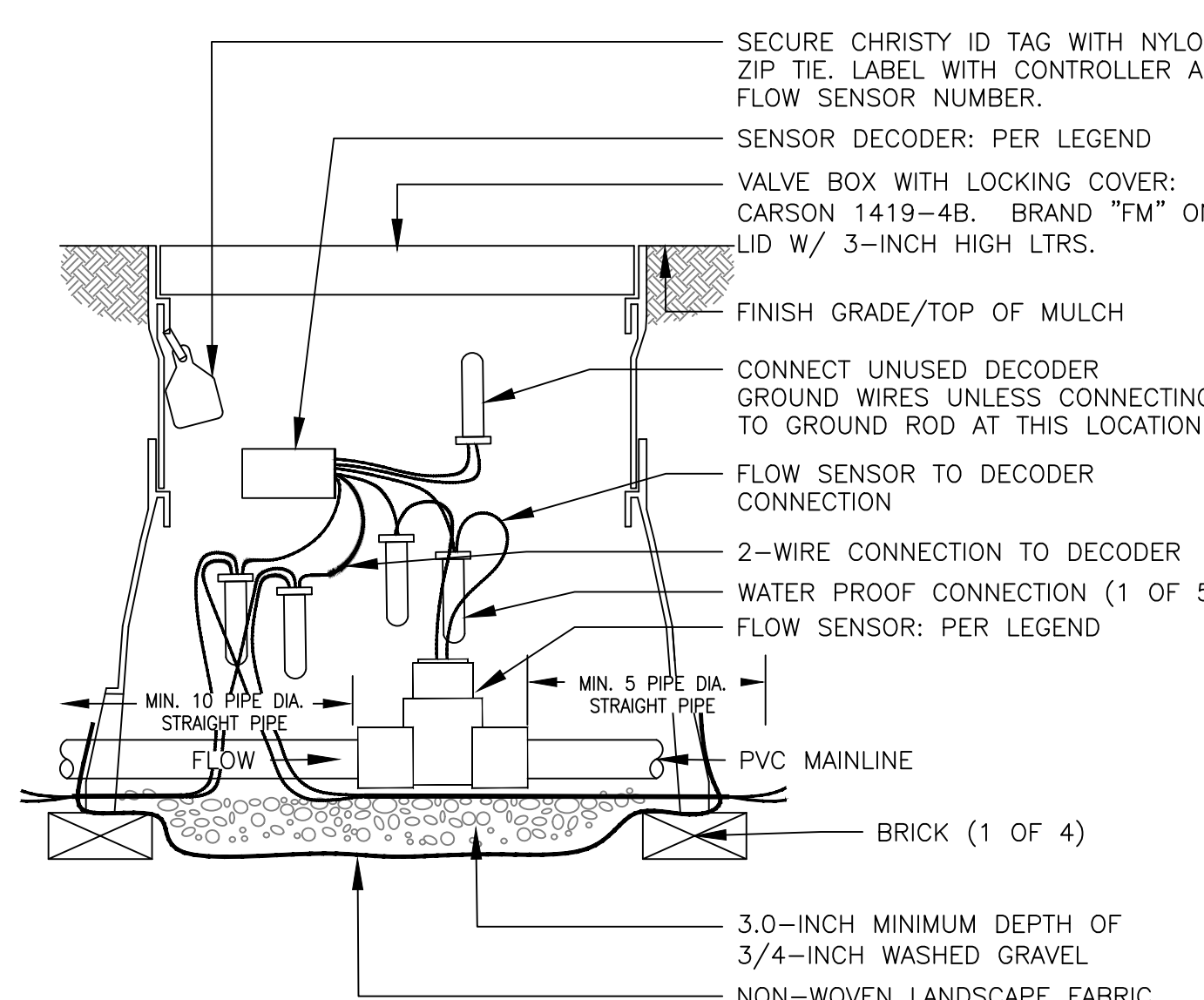


6 QUICK COUPLING VALVE ASSEMBLY

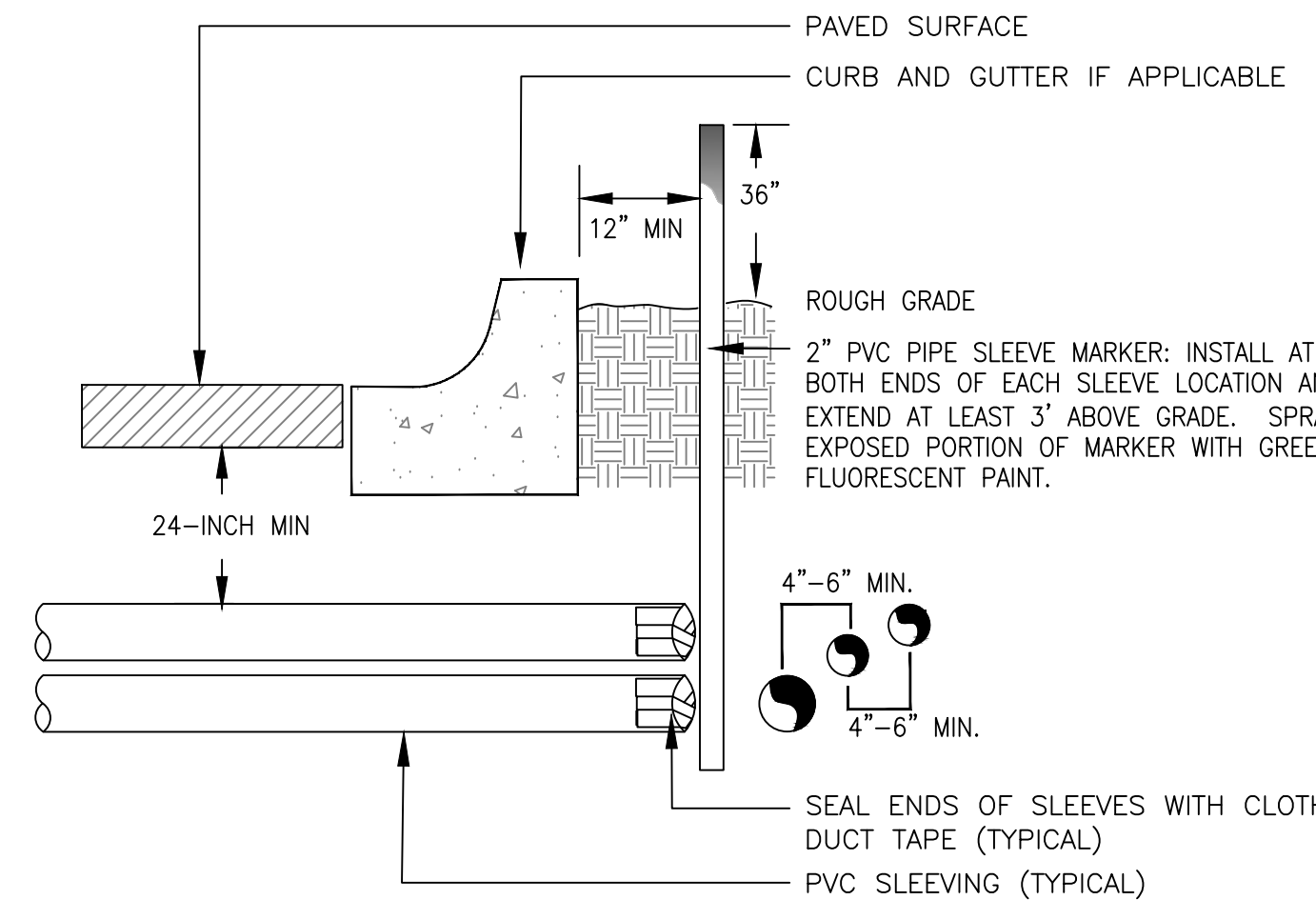


- NOTES:
1. INSTALL PLASTIC RISERS FOR ROTORS IN NATIVE AREAS.

10 6-INCH GEAR DRIVEN ROTOR ASSEMBLY

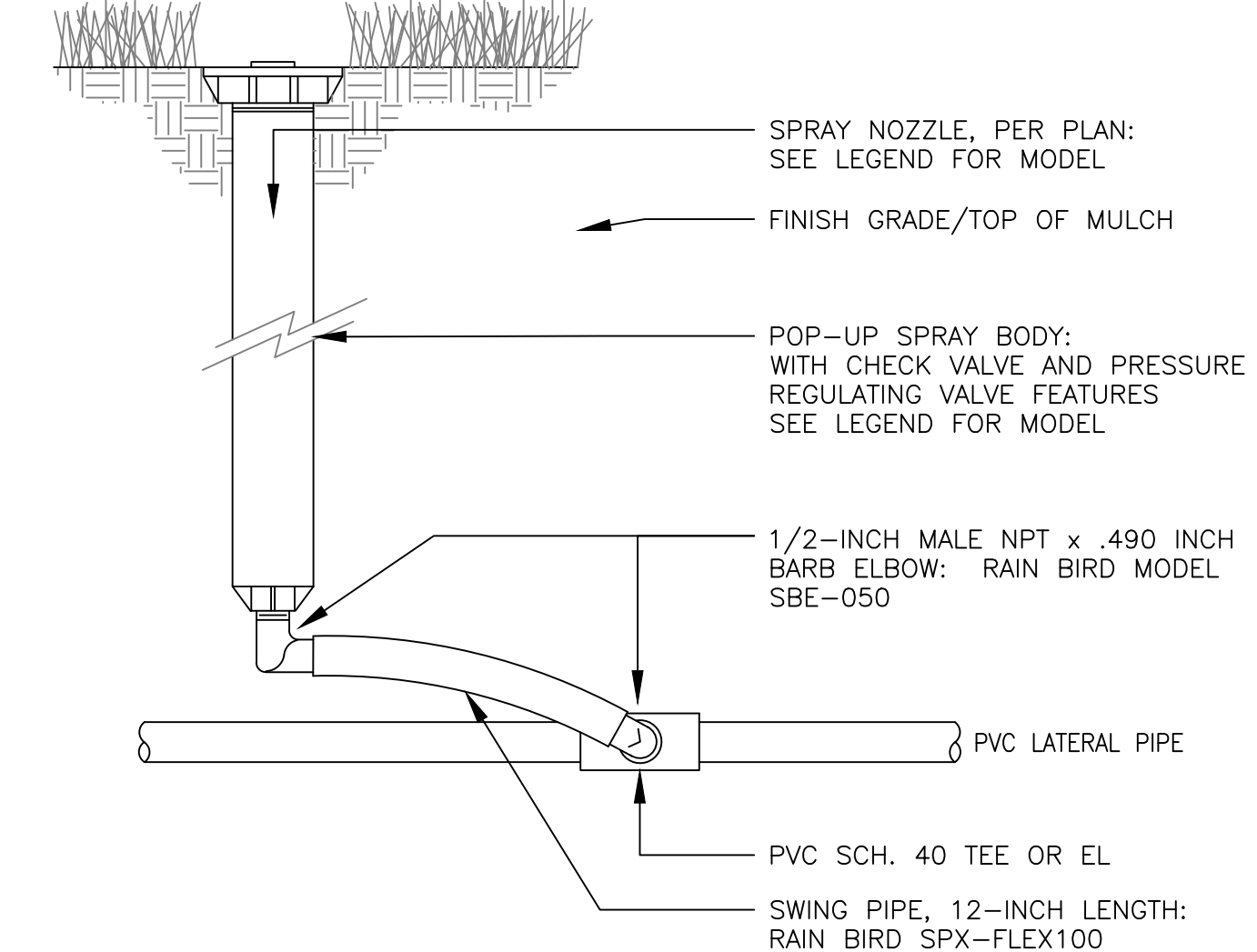


3 FLOW SENSOR ASSEMBLY

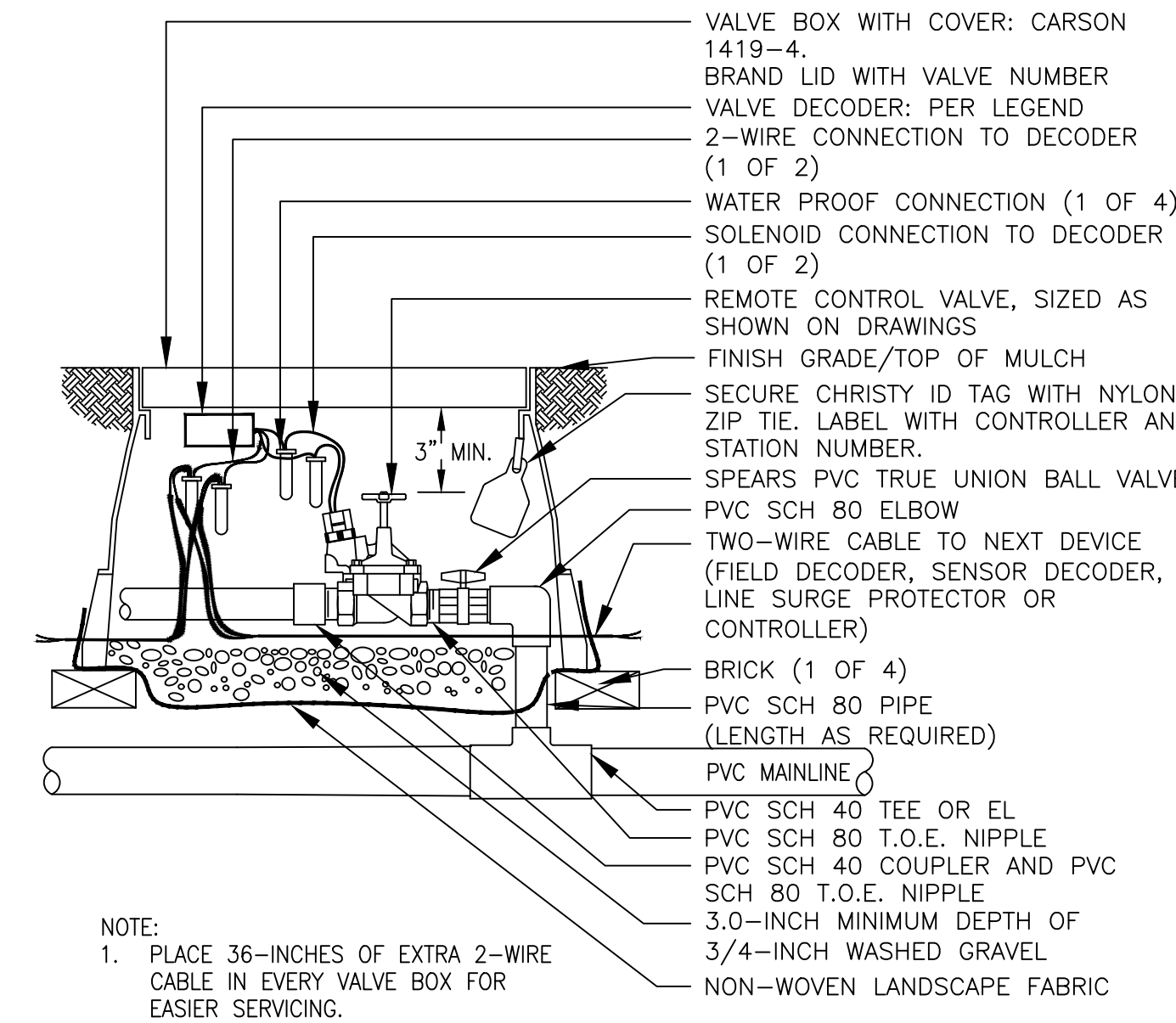


- NOTE:
- 1) ALL SLEEVING TO BE CLASS 200 BE PVC, SIZED AS NOTED.
 - 2) INSTALL SLEEVES IN SIDE-BY-SIDE CONFIGURATION WHERE MULTIPLE SLEEVES ARE TO BE INSTALLED. SPACE SLEEVES 4" TO 6" APART. DO NOT STACK SLEEVES VERTICALLY.

7 TYPICAL SLEEVING DETAIL

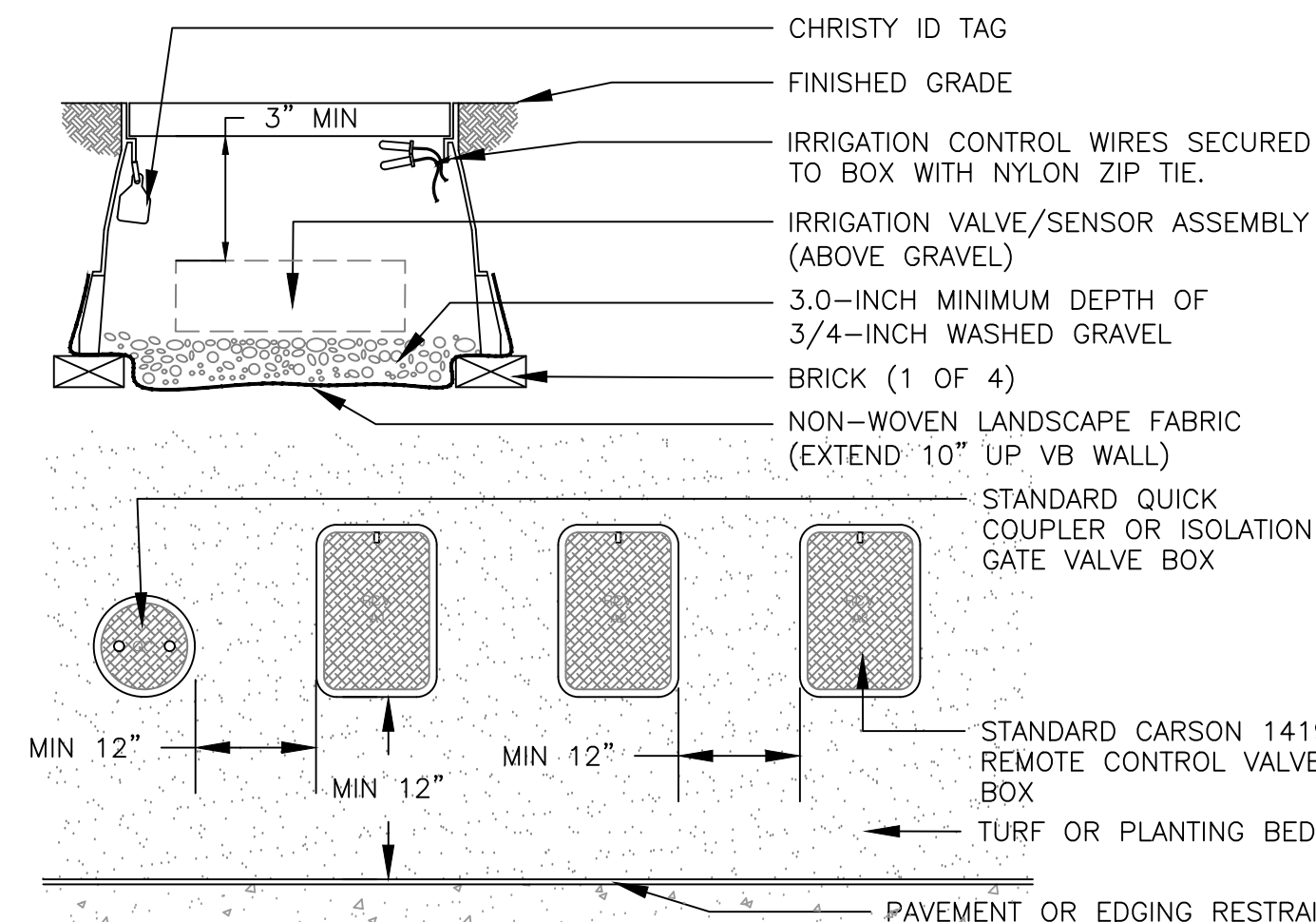


11 12-INCH POP UP SPRAY SPRINKLER ASSEMBLY



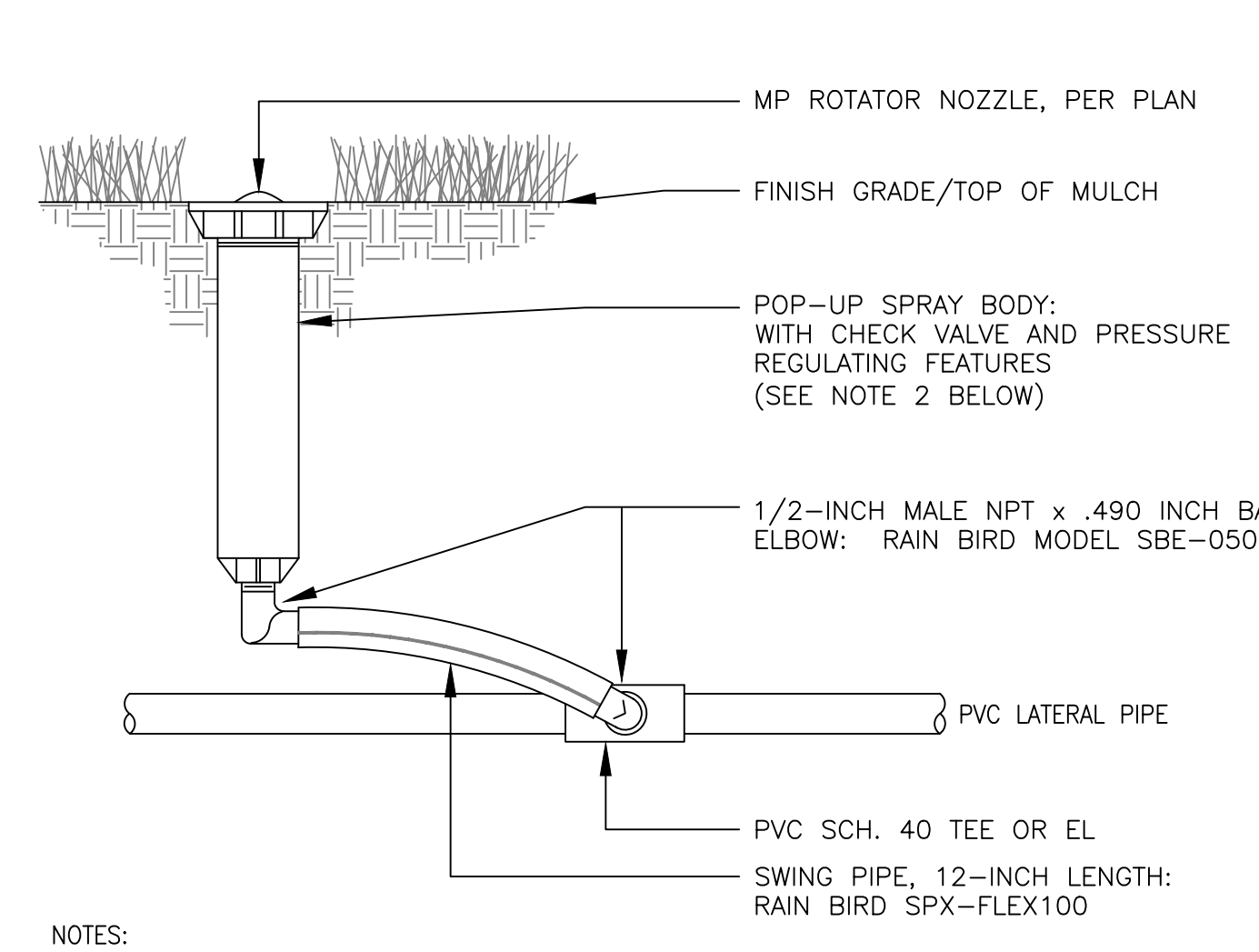
- NOTE:
1. PLACE 36-INCHES OF EXTRA 2-WIRE CABLE IN EVERY VALVE BOX FOR EASIER SERVICING.

4 REMOTE CONTROL SPRINKLER VALVE ASSEMBLY



- NOTES:
1. INSTALL ONLY ONE RCV TO VALVE BOX. LOCATE AT LEAST 12-INCHES FROM AND ALIGN WITH NEARBY WALLS OR EDGES OF PAVED AREAS. GROUP RCV ASSEMBLIES TOGETHER WHERE PRACTICAL.
 2. GROUP RCV ASSEMBLIES TOGETHER WHERE PRACTICAL, BUT AVOID GROUPING MORE THAN THREE (3) STANDARD VALVE BOXES TOGETHER IN A SERIES.
 3. ARRANGE GROUPED VALVE BOXES IN RECTANGULAR PATTERNS.

8 TYPICAL VALVE BOX INSTALLATION



- NOTES:
1. IF POLYETHYLENE PIPE IS USED FOR LATERAL PIPE, SUBSTITUTE INSERT TEE OR EL WITH STAINLESS STEEL CLAMPS FOR PVC SLIP TEE OR EL SHOWN ABOVE.
 2. TO ACHIEVE MINIMUM RADIUS WITH ANY MP ROTATOR MODEL, USE 30 PSI PRESSURE REGULATING SPRAY BODY.

12 6-INCH POP UP MP-ROTATOR ASSEMBLY

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IRRIGATION DETAILS

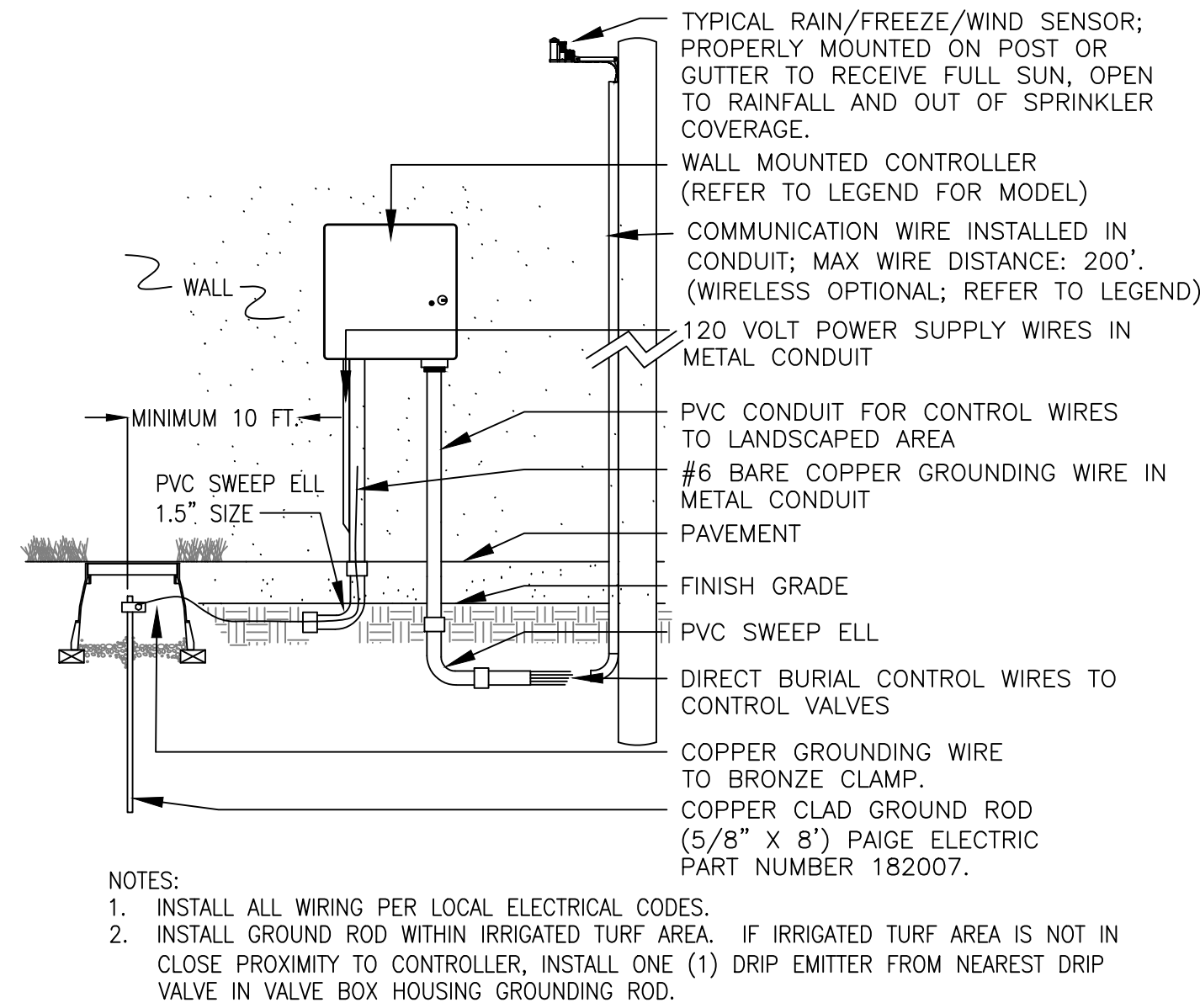
SHEET NUMBER

IR-2.1

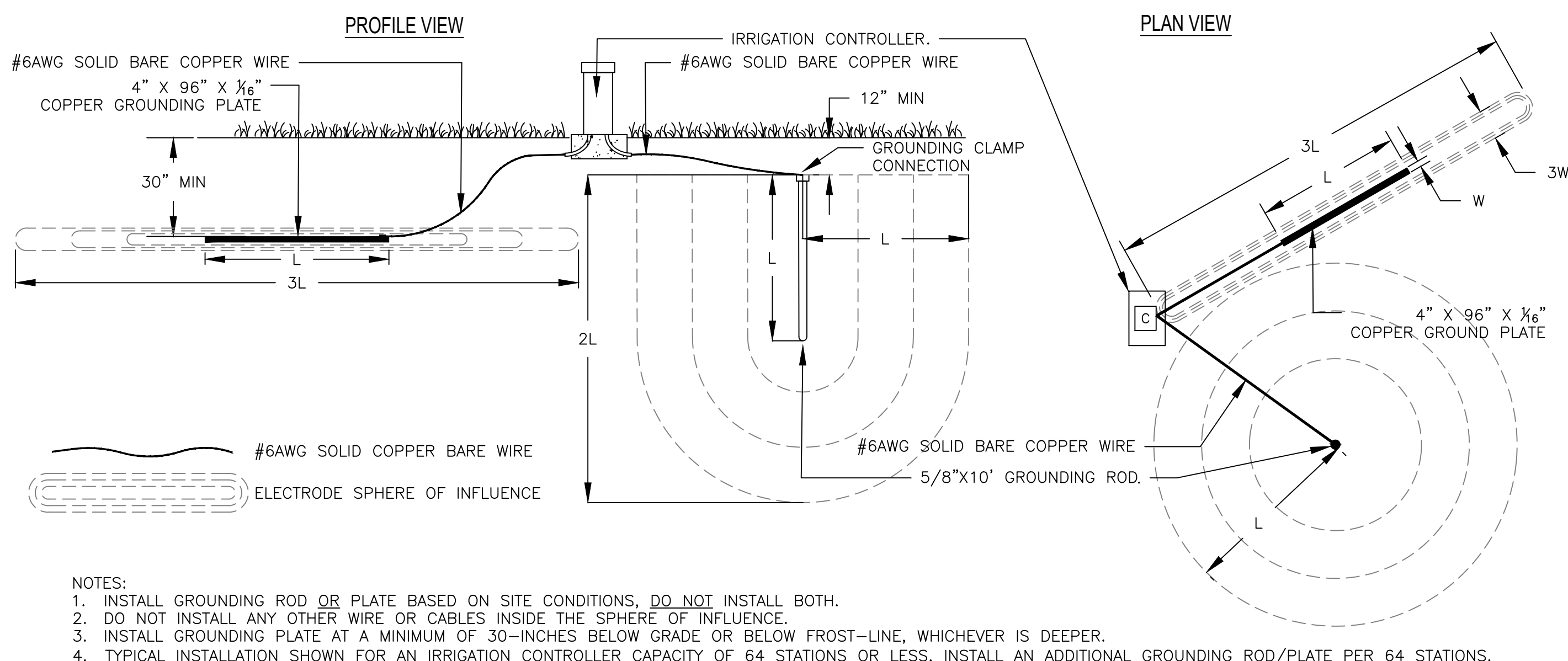
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DM/MT	REVISIONS	04AUG2023

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13 POST MOUNT CONTROLLER ASSEMBLY



14 TYPICAL IRRIGATION CONTROLLER GROUNDING ROD OR PLATE INSTALLATION

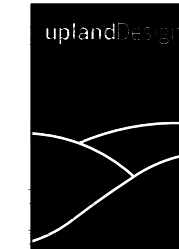
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SHEET TITLE
IRRIGATION DETAILS

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